

# Product Datasheet

## GAPDH Antibody NB300-322

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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**NB300-322****GAPDH Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	TBS and 0.1% BSA
<b>Target Molecular Weight</b>	36 kDa
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	2597
<b>Gene Symbol</b>	GAPDH
<b>Species</b>	Human, Mouse, Rat, Chicken, Primate
<b>Reactivity Notes</b>	Chicken reactivity reported in scientific literature (Youngworth IA et al).
<b>Marker</b>	Cytosolic Marker
<b>Immunogen</b>	This GAPDH antibody was developed against an epitope between residues 150 and 200 of human GAPDH using the numbering given in entry NP_002037.2 (GeneID 2597).
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:2000-1:10000, Simple Western 1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation, Immunohistochemistry-Paraffin 1:100-1:500, Knockdown Validated
<b>Application Notes</b>	<p>This GAPDH antibody is useful for Western Blot, Immunocytochemistry/Immunofluorescence and Immunohistochemistry-Paraffin applications. For IHC, antigen retrieval with citrate buffer pH6.0 is recommended for formalin fixed paraffin embedded tissue sections.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in Brain, separated by Size, antibody dilution of 1:100. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> <p>The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.</p>

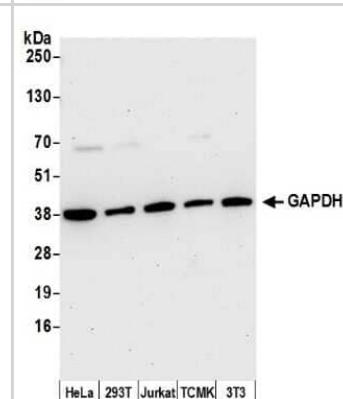


## Images

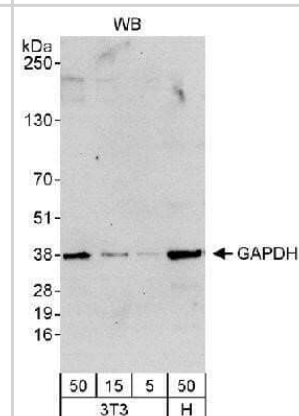
**Simple Western: GAPDH Antibody [NB300-322]** - Simple Western lane view shows a specific band for GAPDH in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Note: band observed higher than predicted molecular weight of 36 kDa.



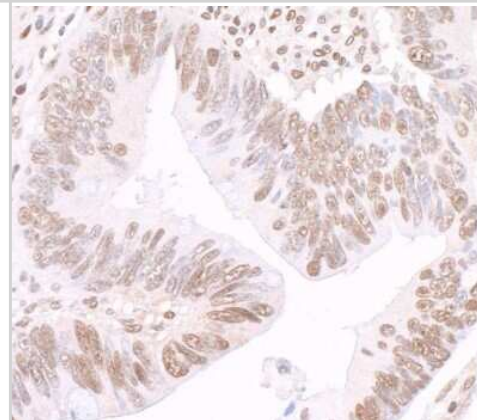
**Western Blot: GAPDH Antibody [NB300-322]** - Detection of Human and Mouse GAPDH (theoretical molecular weight: 36 kDa) by Western Blot. Samples: Whole cell lysate (15 ug) from HeLa, 293T, Jurkat, mouse TCMK-1, and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-GAPDH antibody NB300-322 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



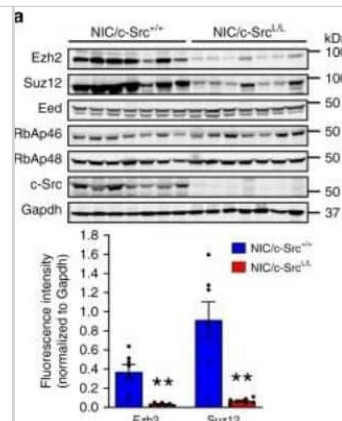
**Western Blot: GAPDH Antibody [NB300-322]** - Detection of Human and Mouse GAPDH (theoretical molecular weight: 36 kDa) by Western Blot. Samples: Whole cell lysate from mouse NIH3T3 (5, 15 and 50 ug) and human HeLa (H; 50 ug) cells. Antibody: Affinity purified rabbit anti-GAPDH antibody used at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



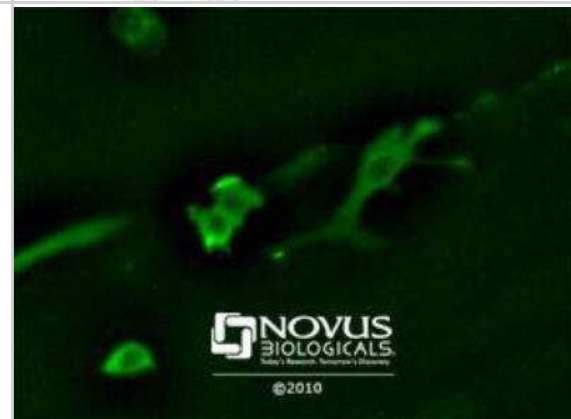
**Immunohistochemistry: GAPDH Antibody [NB300-322]** - Detection of human GAPDH by immunohistochemistry. Sample: FFPE section of human colon carcinoma. Antibody: Affinity purified rabbit anti-GAPDH (NB300-322). Detection: DAB



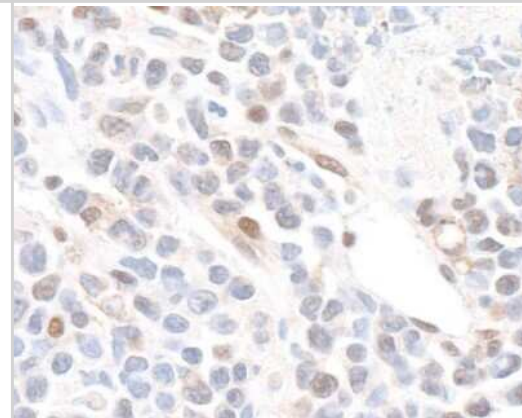
Western Blot: GAPDH Antibody [NB300-322] - c-Src is required for efficient translation of PRC2 component mRNAs. Immunoblot of PRC2 components in control and c-Src-deficient tumors. Bar chart shows quantification of fluorescent immunoblot data normalized to the loading control (Gapdh). Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41467-019-10681-4>), licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: GAPDH Antibody [NB300-322] - GAPDH detection in HeLa cells with ICC-IF application using NB300-322, visualized with DyLight Fluor 488.



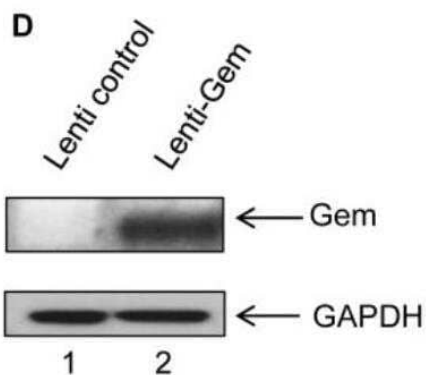
Immunohistochemistry: GAPDH Antibody [NB300-322] - Detection of mouse GAPDH by immunohistochemistry. Sample: FFPE section of mouse plasmacytoma. Antibody: Affinity purified rabbit anti-GAPDH (NB300-322). Detection: DAB



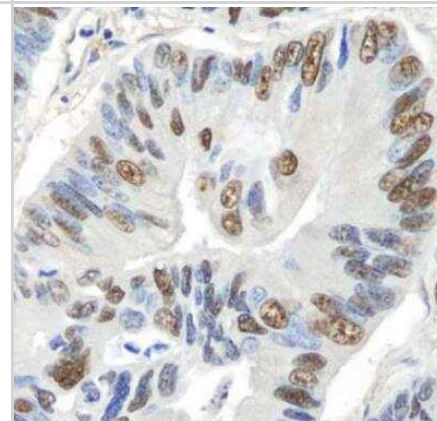
Western Blot: GAPDH Antibody [NB300-322] - Mouse DRG stained at 1:2000 dilution. Image provided by verified customer review.



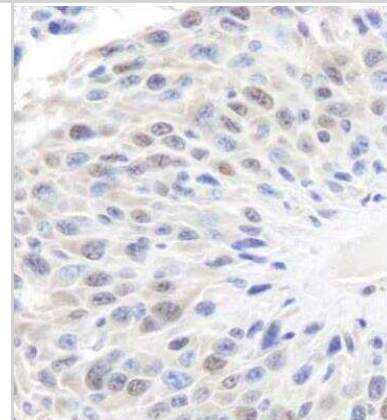
Western Blot: GAPDH Antibody [NB300-322] - Gem expression is sufficient to increase chemokinesis and chemotaxis. Western blot analyses were performed on 70 ug of cellular extracts from MOLT4 cells transduced by Lenti-control or Lenti-GEM viral particles. Membranes were probed with anti-Gem (1:2,000) or anti-GAPDH (1:1,000) antibody. \*\*\*: significantly different,  $p < 0.0001$ , Student's t-test. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1003917>) licensed under a CC-BY license



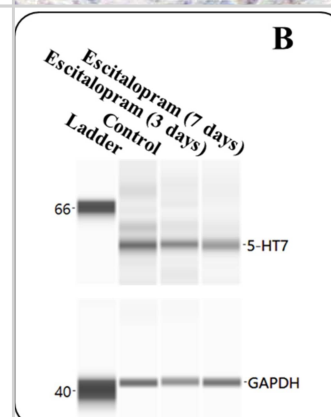
Immunohistochemistry-Paraffin: GAPDH Antibody [NB300-322] - IHC-P detection of GAPDH in formalin fixed paraffin embedded section of human lung carcinoma using NB300-322 at a dilution of 1:200.



Immunohistochemistry-Paraffin: GAPDH Antibody [NB300-322] - IHC-P detection of GAPDH in formalin fixed paraffin embedded section of mouse squamous cell carcinoma using NB300-322 at a dilution of 1:200.

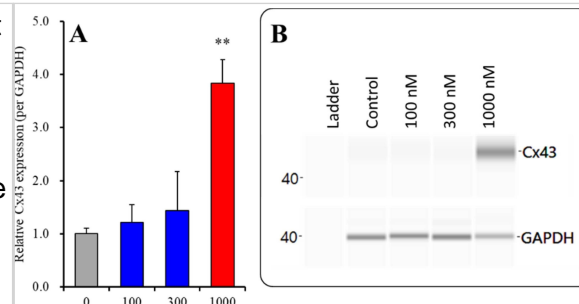


Time-dependent effects of subacute administration of effective dose of escitalopram (5 mg/kg/day) for 3 & 7 days on expression of 5-HT<sub>7</sub>R in the thalamic plasma membrane fraction (Panel (A)). Ordinate: mean  $\pm$  SD ( $n = 6$ ) of the relative protein level of 5-HT<sub>7</sub>R in the thalamic plasma membrane fraction. Panel (B) indicates the pseudo-gel images using capillary immunoblotting. \*\*  $p < 0.01$  vs. control by one-way analysis of variance with Tukey's post-hoc test. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33572981>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

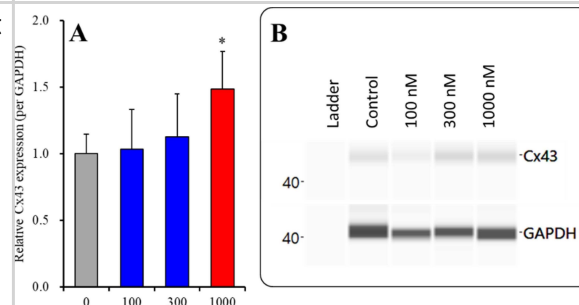




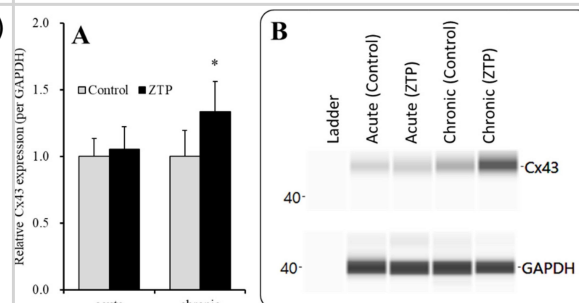
Western Blot: GAPDH Antibody [NB300-322] - Concentration-dependent effects of subchronic administration of ZTP on Cx43 protein expression in the plasma membrane fraction (A) & their pseudogel images, using capillary immunoblotting (B). Ordinate: mean  $\pm$  SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Concentration-dependent effects of ZTP (100, 300 & 1000 nM) on Cx43 expression in the plasma membrane fraction of the primary cultured astrocytes were analysed by one-way ANOVA with Tukey's (wholly significant difference) post hoc test (\*\* p < 0.01 vs. ZTP free (0)). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/34832898>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



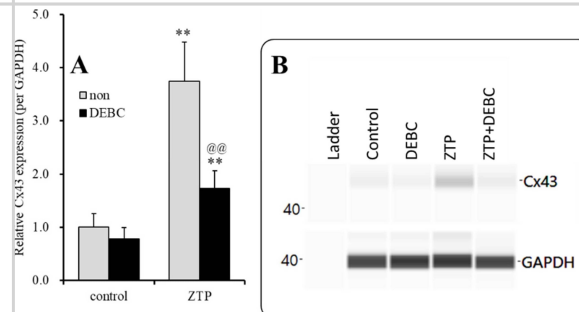
Western Blot: GAPDH Antibody [NB300-322] - Concentration-dependent effects of subchronic administration of ZTP on Cx43 protein expression in the cytosol fraction (A) & their pseudogel images, using capillary immunoblotting (B). Ordinate: mean  $\pm$  SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Concentration-dependent effects of ZTP (100, 300 & 1000 nM) on Cx43 expression in the cytosol fraction of the primary cultured astrocytes were analysed by one-way ANOVA with Tukey's (wholly significant difference) post hoc test (\* p < 0.05 vs. ZTP free (0)). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/34832898>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



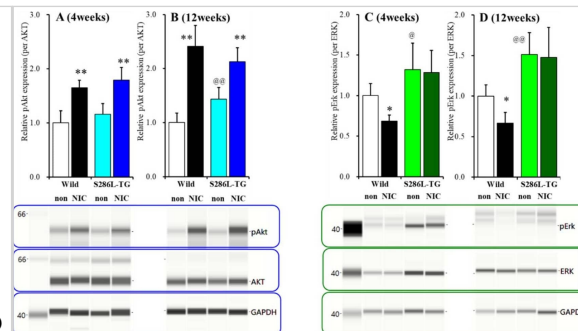
Western Blot: GAPDH Antibody [NB300-322] - Effects of acute (120 min) administration of suprathreshold concentration of ZTP (1000 nM) & chronic (14 days) administration of therapeutically relevant concentrations of ZTP (300 nM) on Cx43 protein expression in the plasma membrane fraction (A) & their pseudogel images, using capillary immunoblotting (B). Ordinate: mean  $\pm$  SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Effects of ZTP on Cx43 expression in the plasma membrane fraction of the primary cultured astrocytes were analysed by student T-test (\* p < 0.05 vs. control: ZTP free). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/34832898>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



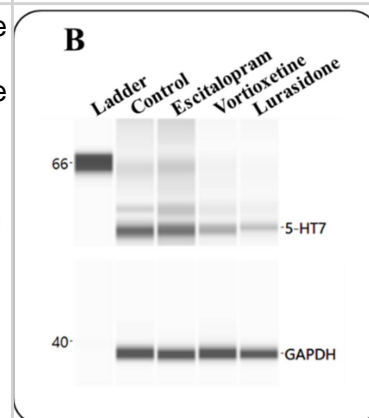
Western Blot: GAPDH Antibody [NB300-322] - Interaction between subchronic administration of suprathreshold concentration of ZTP & Akt inhibitor (DEBC) on Cx43 protein expression in the astroglial plasma membrane fraction (A) & their pseudogel images, using capillary immunoblotting (B). Ordinate: mean  $\pm$  SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Effects of ZTP (1000 nM) & Akt inhibitor (DEBC: 10  $\mu$ M) on Cx43 expression in the plasma membrane fraction of the primary cultured astrocytes were analysed by two-way ANOVA with Tukey's (wholly significant difference) post hoc test (\*\* p < 0.01 vs. control, @@ p < 0.01 vs. non). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/34832898>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



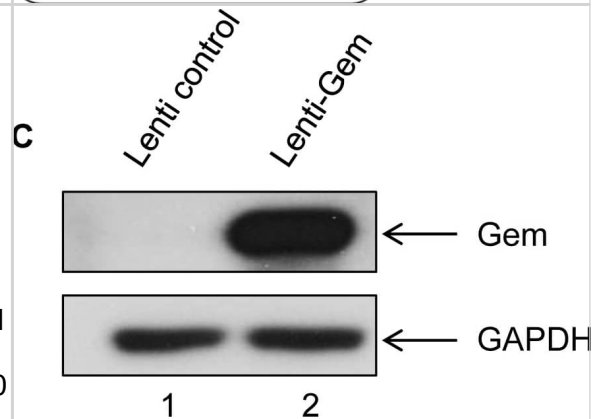
**Simple Western: GAPDH Antibody [NB300-322]** - Effects of subchronic nicotine administration on the expression of phosphorylated protein kinase B (pAkt) & phosphorylated extracellular signal-regulated kinase (pErk) in the plasma membrane fraction of OFC. Effects of the systemic subchronic administration of nicotine (50 mg/kg/day for seven days) on pAkt & pErk expression in the OFC plasma membrane fraction before four week of age (A,C) & after 12 week of age (B,D), ADSHE onset of the wild-type & S286L-TG & pseudo-gel images, using capillary immunoblotting. Ordinate: mean  $\pm$  SD ( $n = 6$ ) of the relative protein level of pErk & pAkt. \*  $p < 0.05$ , \*\*  $p < 0.01$  vs. wild-type, & @  $p < 0.05$ , @@  $p < 0.01$  vs. nicotine-free (non) by two-way ANOVA with Tukey's multiple comparison. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33143372>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



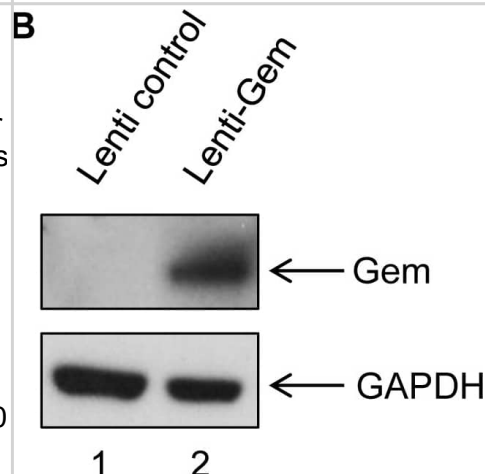
**Simple Western: GAPDH Antibody [NB300-322]** - Effects of the subacute administration of effective doses of vortioxetine (2.5 mg/kg/day), escitalopram (5 mg/kg/day), & lurasidone (3 mg/kg/day) for 3 days on the expression of 5-HT7R in the thalamic plasma membrane fraction (Panel (A)). Ordinate: mean  $\pm$  SD ( $n = 6$ ) of the relative protein level of 5-HT7R in the thalamic plasma membrane fraction. Panel (B) indicates the pseudo-gel images using capillary immunoblotting. \*  $p < 0.05$ , \*\*  $p < 0.01$  vs. the control by Student's t-test. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33572981>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



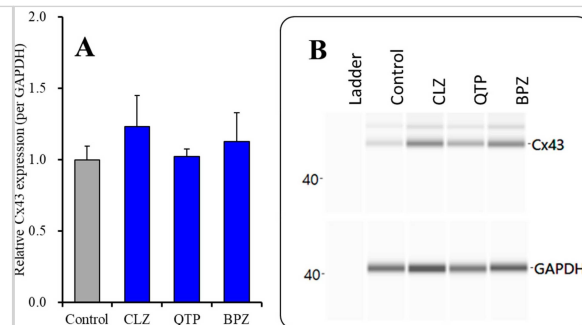
**Western Blot: GAPDH Antibody [NB300-322]** - Gem expression is sufficient to increase cell motility. (A): HeLa cells were transduced with Lenti-control or Lenti-Tax viral particles. When cells reached 100% confluence, a wound was made in the cell monolayer & pictures were taken at 0 h & up to 12 h post-wounding. Measurements between the 2 fronts of migration were performed using image-J software (NIH, USA). (B): Percentage of healing during a 12 h kinetic. (C): Western blot analyses were performed on 70  $\mu$ g of cellular extracts transduced by Lenti-control or Lenti-Tax viral particles. Membranes were probed with anti-Gem (1:2,000) or anti-GAPDH (1:1,000) antibody. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1003917>), licensed under a CC0-1.0 license. Not internally tested by Novus Biologicals.



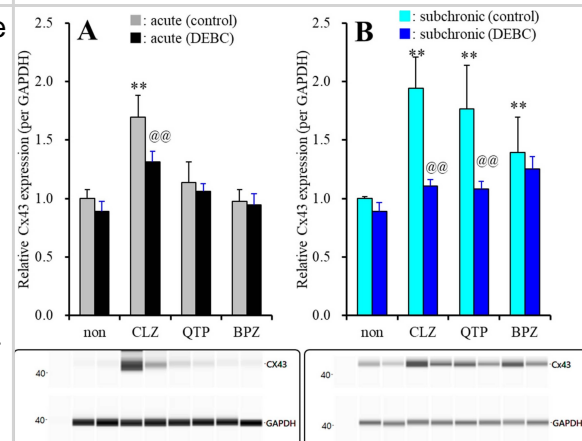
**Western Blot: GAPDH Antibody [NB300-322]** - Gem expression is sufficient to increase chemokinesis & chemotaxis. (A, C): MOLT4 cells were transduced with Lenti-control or Lenti-GEM. Forty-eight hours later, 5.105 cells were collected & loaded on a 5  $\mu$ m permeable Transwell filter in absence or presence of SDF1/CXCL12 (150 ng/ml). Twenty-four hours later, cell migration was quantified by flow cytometry (flow cytometer FacsCalibur4c+HTS (BD biosciences)). (B, D): Western blot analyses were performed on 70  $\mu$ g of cellular extracts from MOLT4 cells transduced by Lenti-control or Lenti-GEM viral particles. Membranes were probed with anti-Gem (1:2,000) or anti-GAPDH (1:1,000) antibody. \*\*\*: significantly different,  $p < 0.0001$ , Student's t-test. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1003917>), licensed under a CC0-1.0 license. Not internally tested by Novus Biologicals.



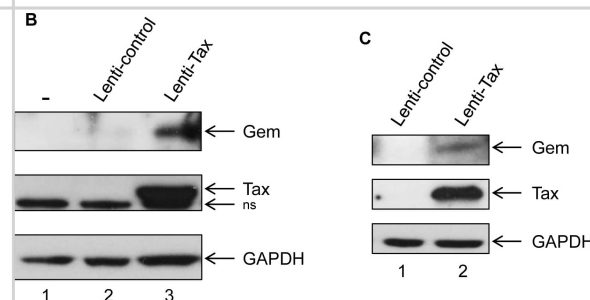
**Western Blot: GAPDH Antibody [NB300-322] - Effects of subchronic administration of therapeutic-relevant concentration of antipsychotics, CLZ (3  $\mu$ M), QTP (1  $\mu$ M) & BPZ (0.3  $\mu$ M), on Cx43 protein expression in the plasma fraction (A) & their pseudo-gel images, using capillary immunoblotting (B). Ordinate: mean  $\pm$  SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/34070699>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.**



**Western Blot: GAPDH Antibody [NB300-322] - Interaction between acute administration of therapeutic-relevant concentration of antipsychotics & Akt inhibitor (DEBC) on Cx43 protein expression in the astroglial plasma membrane fraction, after subchronic administration of therapeutic-relevant concentration of VPA (500  $\mu$ M) (A). Interaction between subchronic administration of therapeutic-relevant concentration of antipsychotics & DEBC on Cx43 protein expression in the astroglial plasma membrane fraction, after subchronic administration of therapeutic-relevant concentration of VPA (B). Lower panels indicate their pseudo-gel images, using capillary immunoblotting. Ordinate: mean  $\pm$  SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Effects of antipsychotics & Akt inhibitor (DEBC: 10  $\mu$ M) on Cx43 expression in the plasma membrane fraction of the primary cultured astrocytes were analyzed by MANOVA with Tukey's post hoc test (\*\* p < 0.01 vs. non, @@ p < 0.01 vs. control). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/34070699>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.**

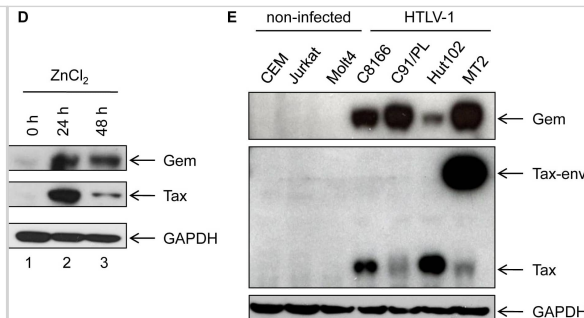


**Western Blot: GAPDH Antibody [NB300-322] - Gem is overexpressed in T- & non-T-Tax-expressing cells as well as in HTLV-1 infected cells. (A): Total RNA was extracted from 293T cells transduced with Lenti-control (lane 2) or Lenti-Tax (lane 3) & RT-PCR was performed using gem or GAPDH specific primers. Lane 1 is a control of extraction. (B, C): Western blot analyses were performed with 70  $\mu$ g of proteins from (B) 293T or (C) MOLT4 cells transduced by Lenti-control or Lenti-Tax vectors (72 h post-transduction). (D): JPX-9 cells were grown for 24 h or 48 h in the presence of ZnCl<sub>2</sub> (120  $\mu$ M). Western blot analyses were performed with 70  $\mu$ g of JPX-9 cellular extracts. (E): Western blot analyses were performed with 70  $\mu$ g of cellular extracts obtained from non-infected (CEM, Jurkat & MOLT4) or HTLV-1-infected (C8166, C91/PL, Hut102 & MT2) T-lymphocytes. (B, C, D, E): Membranes were probed with anti-Gem (1 $\times$ 2,000) & anti-GAPDH (1 $\times$ 1,000) or anti-Tax Tab 172 (1 $\times$ 500) antibodies. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1003917>), licensed under a CC0-1.0 license. Not internally tested by Novus Biologicals.**

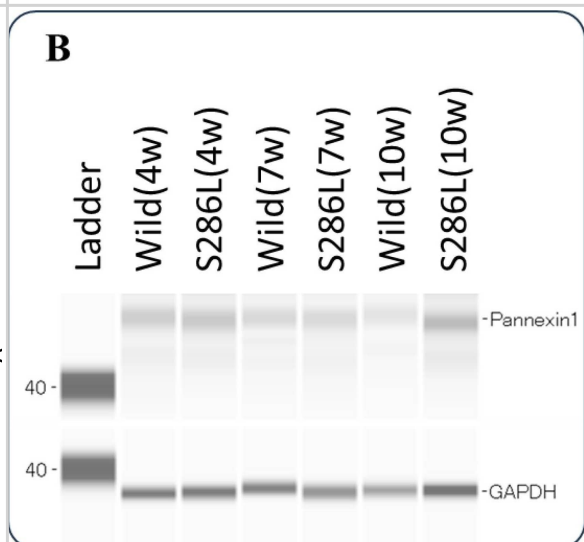




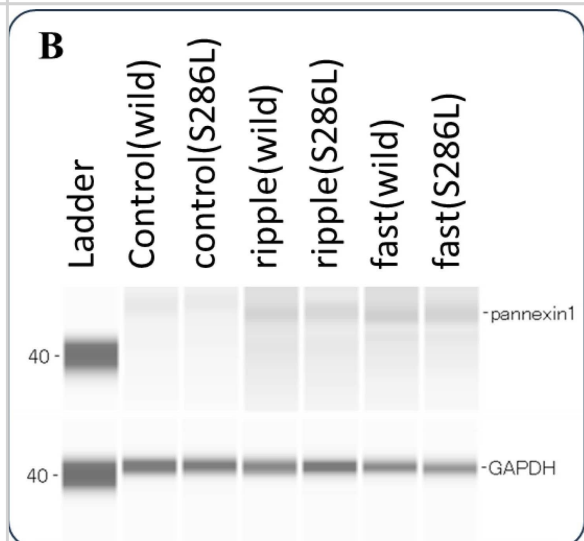
Western Blot: GAPDH Antibody [NB300-322] - Gem is overexpressed in T- & non-T-Tax-expressing cells as well as in HTLV-1 infected cells. (A): Total RNA was extracted from 293T cells transduced with Lenti-control (lane 2) or Lenti-Tax (lane 3) & RT-PCR was performed using gem or GAPDH specific primers. Lane 1 is a control of extraction. (B, C): Western blot analyses were performed with 70  $\mu$ g of proteins from (B) 293T or (C) MOLT4 cells transduced by Lenti-control or Lenti-Tax vectors (72 h post-transduction). (D): JPX-9 cells were grown for 24 h or 48 h in the presence of ZnCl<sub>2</sub> (120  $\mu$ M). Western blot analyses were performed with 70  $\mu$ g of JPX-9 cellular extracts. (E): Western blot analyses were performed with 70  $\mu$ g of cellular extracts obtained from non-infected (CEM, Jurkat & MOLT4) or HTLV-1-infected (C8166, C91/PL, Hut102 & MT2) T-lymphocytes. (B, C, D, E): Membranes were probed with anti-Gem (1 $\square$ 2,000) & anti-GAPDH (1 $\square$ 1,000) or anti-Tax Tab 172 (1 $\square$ 500) antibodies. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1003917>), licensed under a CC0-1.0 license. Not internally tested by Novus Biologicals.



Simple Western: GAPDH Antibody [NB300-322] - Age-dependent fluctuations of pannexin1 expression in the plasma membrane in OFC of wild type and S286L-TG. Panel (A) indicates expressions of pannexin1 in the plasma membrane fraction of OFC of wild type (brown columns) and S286L-TG (green columns) at 4, 7, and 10 weeks of age, respectively. Ordinates indicate the mean  $\pm$  SD (n = 6) of relative expression of pannexin1 per GAPDH, and abscissas indicate ages (weeks). \*\* p < 0.01, relative to pannexin1 expression at 4 weeks of age, @@ p < 0.01, relative to the wild type of the same age using two-way ANOVA with Scheffe's post hoc test. F value was [Fage(2,30) = 0.7 (p > 0.1), Fgenotype(1,30) = 30.7 (p < 0.01), Fage\*genotype(2,30) = 11.0 (p < 0.01)]. Panel (B) indicates the pseudo-gel images of pannexin1 and GAPDH using capillary immunoblotting. Image collected and cropped by CiteAb under a CC-BY license from the following publication: Age-Dependent Activation of Pannexin1 Function Contributes to the Development of Epileptogenesis in Autosomal Dominant Sleep-related Hypermotor Epilepsy Model Rats. *Int J Mol Sci* (2024). Not internally tested by Novus Biologicals.



Simple Western: GAPDH Antibody [NB300-322] - Astroglial expression in the plasma membrane evoked by ripple burst and fast ripple burst stimulations in wild type and S286L-TG. Panel (A) indicates expression of pannexin1 in the astroglial plasma membrane fraction. Ordinates indicate the mean  $\pm$  SD (n = 6) of relative expression of pannexin1 per GAPDH. Gray and green bars indicate pannexin1 expression in astrocytes of wild type and S286L-TG after chronic fast ripple-evoked stimulation, respectively. \* p < 0.05, \*\* p < 0.01 using two-way ANOVA with Scheffe's post hoc test. F value was [Fgenotype(1,20) = 16.6 (p < 0.01), Fage(1,20) = 2.0 (p > 0.1), Fgenotype\*age(1,20) = 5.4 (p < 0.05)]. Panel (B) indicates the pseudo-gel images of P2X7R and GAPDH, using capillary immunoblotting. Image collected and cropped by CiteAb under a CC-BY license from the following publication: Age-Dependent Activation of Pannexin1 Function Contributes to the Development of Epileptogenesis in Autosomal Dominant Sleep-related Hypermotor Epilepsy Model Rats. *Int J Mol Sci* (2024). Not internally tested by Novus Biologicals.



## Publications

Rummel CK, Gagliardi M, Ahmad R, Herholt A et Al. Massively parallel functional dissection of schizophrenia-associated noncoding genetic variants Cell 2023-10-18 [PMID: 37852259]

LT Wang, MÈ Proulx, AD Kim, V Lelarge, L McCaffrey A proximity proteomics screen in three-dimensional spheroid cultures identifies novel regulators of lumen formation Scientific Reports, 2021-11-23;11(1):22807. 2021-11-23 [PMID: 34815476]

Kouji Fukuyama, Eishi Motomura, Motohiro Okada, Stanisław Jerzy Czuczwar Age-Dependent Activation of Pannexin1 Function Contributes to the Development of Epileptogenesis in Autosomal Dominant Sleep-related Hypermotor Epilepsy Model Rats International Journal of Molecular Sciences 2024-01-28 [PMID: 38338895] (Simple Western)

T Shiroyama, K Fukuyama, M Okada Distinct Effects of Escitalopram and Vortioxetine on Astroglial L-Glutamate Release Associated with Connexin43 International Journal of Molecular Sciences, 2021-09-16;22(18):. 2021-09-16 [PMID: 34576176]

Fukuyama, K;Motomura, E;Okada, M; Age-Dependent Activation of Purinergic Transmission Contributes to the Development of Epileptogenesis in ADSHE Model Rats Biomolecules 2024-02-08 [PMID: 38397441]

Mashimo K, Ohno Y. Cultured Neonatal Rat Cardiomyocytes Continue Beating Through Upregulation of CTGF Gene Expression Journal of Nippon Medical School 2020-12-14 [PMID: 33311008]

Fukuyama K, Okada M. Age-Dependent and Sleep/Seizure-Induced Pathomechanisms of Autosomal Dominant Sleep-Related Hypermotor Epilepsy International Journal of Molecular Sciences 2020-10-30 [PMID: 33143372] (Simple Western)

Borovská I, Vořechovský I, Královířová J Alu RNA fold links splicing with signal recognition particle proteins Nucleic acids research 2023-06-13 [PMID: 37309897] (WB, Human)

Xie X, Fan C, Luo B et al. APR-246 enhances colorectal cancer sensitivity to radiotherapy Molecular cancer therapeutics 2023-05-22 [PMID: 37216282] (WB, Human)

Fukuyama K, Motomura E, Okada M Opposing effects of clozapine and brexpiprazole on beta-aminoisobutyric acid: Pathophysiology of antipsychotics-induced weight gain Schizophrenia (Heidelberg, Germany) 2023-02-08 [PMID: 36750570] (Simple Western, Rat)

Fukuyama, K & Okada, M. Effects of Atypical Antipsychotics, Clozapine, Quetiapine and Brexpiprazole on Astroglial Transmission Associated with Connexin43. Int J Mol Sci [PMID: 34070699] (Simple Western, Rat)

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Xue L, Schnacke P, Frei MS et al. Probing coenzyme A homeostasis with semisynthetic biosensors Nature chemical biology 2022-10-31 [PMID: 36316571] (WB)

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