Product Datasheet

Tight Junction Protein 1 Antibody - BSA Free

NBP1-85046

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Reviews: 2 Publications: 15

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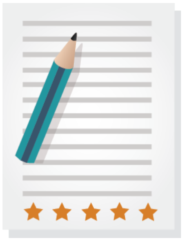
Updated 2/21/2025 v.20.1



NBP1-85046

Tight Junction Protein 1 Antibody - BSA Free

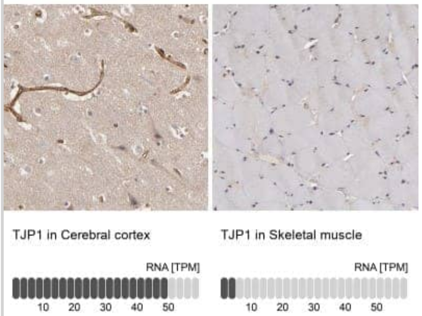
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	7082
Gene Symbol	TJP1
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 31174067).
Marker	Intercellular Junctions/Tight Junction Marker
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: ASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKEISQDSLAARDGNIQEGDVVLKINGTVTENMSLTDAKTLIERSKGKLKMVVQRDERATLLNVPDLSDSIHSANASERDDISEIQSLASDHSGR

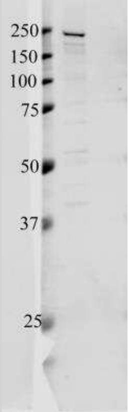
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot validated from a verified customer review., Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25 - 2 ug/mL, Immunohistochemistry-Paraffin 1:50 - 1:200, Immunohistochemistry-Frozen validated from a verified customer review.
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

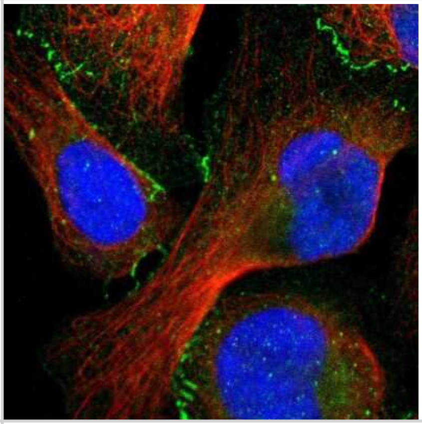
Immunohistochemistry-Paraffin: Tight Junction Protein 1 Antibody [NBP1-85046] - Staining in human cerebral cortex and skeletal muscle tissues using anti-TJP1 antibody. Corresponding TJP1 RNA-seq data are presented for the same tissues.



Western Blot: Tight Junction Protein 1 Antibody [NBP1-85046] - Analysis of Tight Junction Protein 1 in RIPA whole cell lysates of mouse primary choroid plexus epithelial cells using anti-Tight Junction Protein 1 antibody. Image from verified customer review.

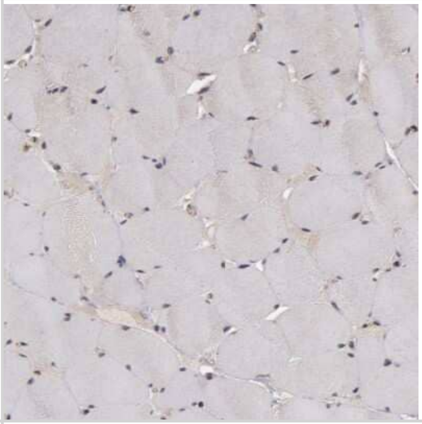


Immunocytochemistry/Immunofluorescence: Tight Junction Protein 1 Antibody [NBP1-85046] - Staining of human cell line U-2 OS shows localization to cytosol & cell junctions. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: Tight Junction Protein 1 Antibody [NBP1-85046] - Staining of human cerebral cortex shows high expression.

Immunohistochemistry-Paraffin: Tight Junction Protein 1 Antibody [NBP1-85046] - Staining of human skeletal muscle shows low expression as expected.



Western Blot: Tight Junction Protein 1 Antibody [NBP1-85046] - Expression of tight junction proteins in cerebellum of rats with mild liver damage. Expression of (A,B) occludin & (C,D) ZO-1 at 2 & 4 weeks was analyzed by Western blot. Values are mean ± SEM of 10–12 rats per group. One-way ANOVA with Tukey's test was performed for occludin at 2 weeks (F(3,27) = 4.99, $p < 0.01$) & 4 weeks (F(3,47) = 0.611, $p > 0.05$) & for ZO-1 at 2 weeks (W(3,23) = 0.715, $p > 0.05$) & 4 weeks (F(3,43) = 3.698, $p < 0.05$). Values significantly different from control rats are indicated by asterisks & from CCl4 rats by a. * $p < 0.05$; a $p < 0.05$. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/34440206), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

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Publications

Shastri S, Shinde T, Woolley KL et al. Short-Chain Naphthoquinone Protects Against Both Acute and Spontaneous Chronic Murine Colitis by Alleviating Inflammatory Responses Frontiers in Pharmacology 2021-08-23 [PMID: 34497514] (Immunohistochemistry, Immunohistochemistry-Paraffin)

Han B, Lv X, Liu G et al. Gut microbiota-related bile acid metabolism-FXR/TGR5 axis impacts the response to anti-?4?7-integrin therapy in humanized mice with colitis Gut microbes 2023-07-11 [PMID: 37431863] (WB)

Mona K, Marnick C, Sumin C et al. Anatomical barriers against SARS-CoV-2 neuroinvasion at vulnerable interfaces visualized in deceased COVID-19 patients Neuron 2022-11-01 [PMID: 36446381] (IF/IHC, Human)

Lensu S, Pariyani R, MAkinen E et al. Prebiotic Xylo-oligosaccharides Targeting Faecalibacterium prausnitzii Prevent High Fat Diet-induced Hepatic Steatosis in Rats Nutrients 2020-10-27 [PMID: 33105554]

Balzano T, Leone P, Ivaylova G Et al. Rifaximin Prevents T-Lymphocytes and Macrophages Infiltration in Cerebellum and Restores Motor Incoordination in Rats with Mild Liver Damage Biomedicines 2021-08-12 [PMID: 34440206] (WB, Rat)

Patterson L, Allen J, Posey I et al. Glucosylceramide production maintains colon integrity in response to Bacteroides fragilis toxin-induced colon epithelial cell signaling FASEB J 2020-10-13 [PMID: 33047400]

Ko SF, Chen KH, Wallace CG et al. Protective effect of combined therapy with hyperbaric oxygen and autologous adipose-derived mesenchymal stem cells on renal function in rodent after acute ischemia-reperfusion injury Am J Transl Res 2020-07-15 [PMID: 32774699] (IF/IHC, Mouse)

Shi Y, Li R, Yang J et al. No tight junctions in tight junction protein-1 expressing HeLa and fibroblast cells Int J Physiol Pathophysiol Pharmacol 2020-05-19 [PMID: 32067099] (IF/IHC, Mouse)

Sheu JJ, Sung PH, Wallace CG et al. Intravenous administration of iPS-MSCSPIONs mobilized into CKD parenchyma and effectively preserved residual renal function in CKD rat J. Cell. Mol. Med. 2020-02-15 [PMID: 32061051] (IF/IHC, Rat)

Shastri S, Shinde T, Sohal SS et al. Idebenone Protects against Acute Murine Colitis via Antioxidant and Anti-Inflammatory Mechanisms Int J Mol Sci 2020-01-12 [PMID: 31940911] (IF/IHC, Mouse)

Evran S, Calis F, Akkaya E et al. The effect of high mobility group box-1 protein on cerebral edema, blood-brain barrier, oxidative stress and apoptosis in an experimental traumatic brain injury model Brain Res. Bull. 2019-11-09 [PMID: 31715313] (IF/IHC, Rat)

Yip HK, Chen KH, Dubey NK, Sun CK et al. Cerebro- and renoprotective activities through platelet-derived biomaterials against cerebrorenal syndrome in rat model Biomaterials 2019-05-28 [PMID: 31174067] (IHC-P, Rat)

More publications at http://www.novusbio.com/NBP1-85046

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Products Related to NBP1-85046

NB820-60575	Human Brain Cerebral Meninges Membrane Tissue Lysate (Adult Membrane Normal)
NBP1-85046PEP	Tight Junction Protein 1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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