Product Datasheet

Glut1 Antibody
NB300-666

Unit Size: 0.1 mg

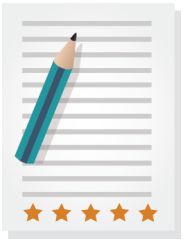
Store at -20C. Avoid freeze-thaw cycles.

www.novusbio.com technical@novusbio.com

Reviews: 2 Publications: 29

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB300-666

Updated 12/20/2023 v.20.1



NB300-666

Glut1 Antibody

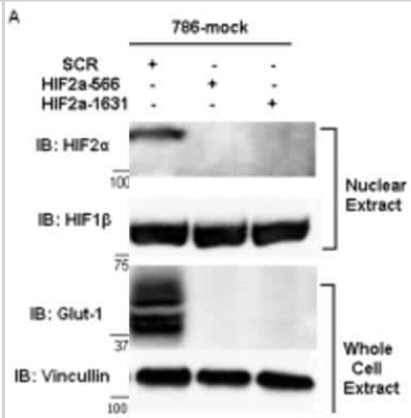
Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris/Glycine buffer (pH 7.4 - 7.8), HEPES, 0.5% BSA, 30% glycerol
Target Molecular Weight	54.1 kDa

Product Description	
Host	Rabbit
Gene ID	6513
Gene Symbol	SLC2A1
Species	Human, Mouse, Rat, Zebrafish
Reactivity Notes	Zebrafish reactivity reported in scientific literature (PMID: 26657775).
Marker	Plasma Membrane Marker
Specificity/Sensitivity	Glucose Transporter GLUT1
Immunogen	This Glut1 antibody is made against a synthetic peptide conjugated to KLH, corresponding to amino acids 478-492 of Human Glucose Transporter GLUT1. Peptide was covalently modified. Sequence: PEELFHPLGADSQV

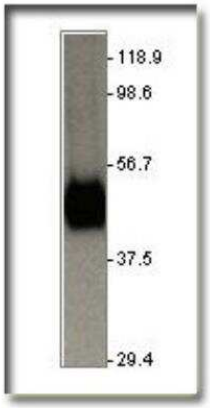
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:5000, ELISA 1:12000, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 1:50 - 1:200, Immunoprecipitation 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	Immunoprecipitation: 2 uL will immunoprecipitate 80-85% Glut1 from rat hippocampal membranes. By Western Blot, a 50 kDa band is seen (predicted MW is 54.1 kDa). Optimal dilutions should be determined by the end user.

Images

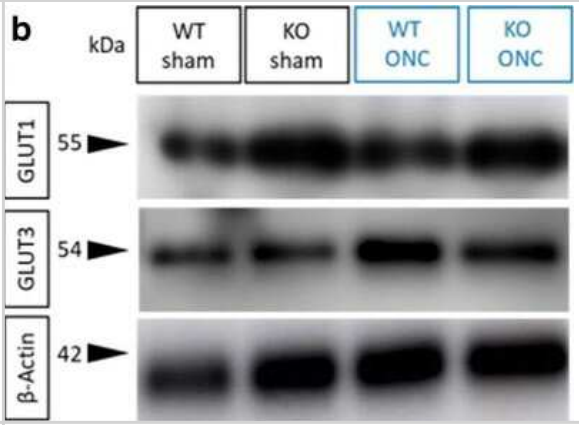
Western Blot: Glut1 Antibody [NB300-666] - Western blot analysis of 786-mock cells stably expressing shRNA constructs. For HIF2A (NB100-480) and HIF1B (NB100-124) analysis, nuclear extracts were generated and analyzed. Image collected and cropped by CiteAb from the following publication (//dx.plos.org/10.1371/journal.pone.0023936) licensed under a CC-BY license. Glut-1 was detected using NB300-666 in whole cell extracts.



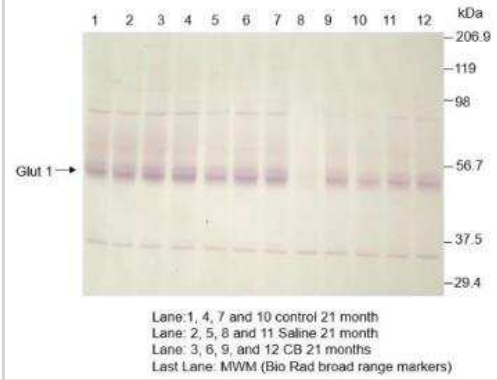
Western Blot: Glut1 Antibody [NB300-666] - WB analysis of purified Glucose Transporter (GLUT1) with GLUT1 antibody at a dilution of 1:2000.



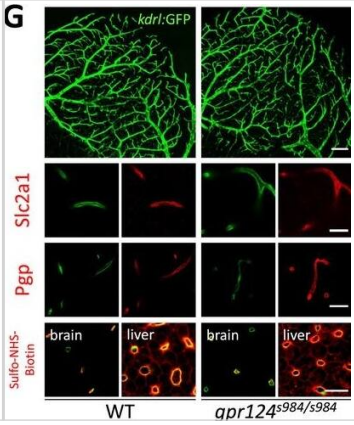
Western Blot: Glut1 Antibody [NB300-666] - Upregulation of Glut1 (NB300-666) and Glut3 (NBP2-66872) expression by Aqp9 gene deletion and ONC. Western blots for Glut1 and Glut3 protein expression levels in WT and Aqp9 KO mice with and without ONC. beta actin was used as a control. Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32748371/) licensed under a CC-BY license.



Western Blot: Glut1 Antibody [NB300-666] - Rat brain cortical extracts (10 ug total protein per lane) on 10% SDS-PAGE gel. Antibody diluted 1:2000.



CNS vascular defects in gpr124 mutants. (G) Vasculature of wild-type and gpr124 mutant adults. Single plane confocal image of the vascular network (upper panels: scale bar, 100 um) and immunostaining for Slc2a1 and Pgp in sections through the optic tectum (middle panels: scale bars, 20 um). Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/26051822), licensed under a CC-BY licence.



Publications

Parab S, Card OA, Chen Q et al. Local angiogenic interplay of Vegfc/d and Vegfa controls brain region-specific emergence of fenestrated capillaries eLife 2023-05-16 [PMID: 37191285] (IHC-P, Fish)

Details:
1:200 IHC-P dilution

Finicle BT Targeting endolysosomal trafficking with synthetic sphingolipid analogs to improve the delivery of oligonucleotide therapeutics Thesis 2023-01-01 (ICC/IF)

Fetsko AR, Sebo DJ, Taylor MR Brain endothelial cells acquire blood-brain barrier properties in the absence of Vegf-dependent CNS angiogenesis Developmental biology 2022-12-09 [PMID: 36502932] (IHC, Zebrafish)

Langbein LE, El Hajjar R, He S et al. BAP1 maintains HIF-dependent interferon beta induction to suppress tumor growth in clear cell renal cell carcinoma Cancer letters 2022-08-20 [PMID: 35995140] (WB, Human)

Details:
Dilutions: 1:2000

Harder I, MUnchhalfen M, Andrieux G et al. Dysregulated PI3K Signaling in B Cells of CVID Patients Cells 2022-01-28 [PMID: 35159274] (Human)

Kanan Y, Hackett SF, Taneja K et al. Oxidative stress-induced alterations in retinal glucose metabolism in Retinitis Pigmentosa Free radical biology & medicine 2022-03-01 [PMID: 35134532] (WB, Mouse)

Laitakari A, Huttunen R, Kuvaja P et al. Systemic long-term inactivation of hypoxia-inducible factor prolyl 4-hydroxylase 2 ameliorates aging-induced changes in mice without affecting their life span FASEB J. 2020-02-25 [PMID: 32100354] (WB, Mouse)

Ulrich F, Carretero-Ortega J, MenEndez J et al. Reck enables cerebrovascular development by promoting canonical Wnt signaling Development. 2015-12-31 [PMID: 26657775] (IF/IHC, Zebrafish)

Finicle BT, Ramirez MU, Liu G et al. Sphingolipids inhibit endosomal recycling of nutrient transporters by inactivating ARF6. J Cell Sci 2018-06-25 [PMID: 29848659]

Chowdhury A, Aich A, Jain G et al. Defective Mitochondrial Cardiolipin Remodeling Dampens HIF-1a Expression in Hypoxia. Cell Rep. 2018-10-16 [PMID: 30332638] (WB, Mouse)

Miyazawa H, Yamamoto M, Yamaguchi Y et al. Mammalian embryos show metabolic plasticity toward the surrounding environment during neural tube closure Genes Cells 2018-08-08 [PMID: 30088697] (Rat)

Joyal JS, Sun Y, Gantner ML et al. Retinal lipid and glucose metabolism dictates angiogenesis through the lipid sensor Ffar1. Nat Med 2016-04-01 [PMID: 26974308]

More publications at http://www.novusbio.com/NB300-666

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB300-666

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB110-39113PEP	Glut1 Antibody Blocking Peptide

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB300-666

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications