

Product Datasheet

Glut3 Antibody (JA50-31)

NBP2-66872

Unit Size: 100 ul

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

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Publications: 5

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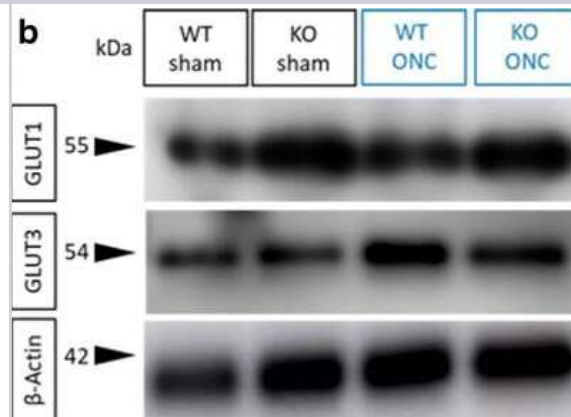
NBP2-66872

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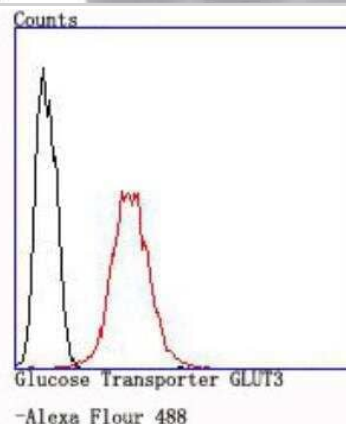
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JA50-31
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol
Target Molecular Weight	54 kDa
Product Description	
Description	Novus Biologicals Rabbit Glut3 Antibody (JA50-31) (NBP2-66872) is a recombinant monoclonal antibody validated for use in WB, Flow and ICC/IF. Anti-Glut3 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6515
Gene Symbol	SLC2A3
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within Human Glut3 aa 11-60 / 496. (SwissProt: P11169 Human; SwissProt: P32037 Mouse; SwissProt: Q07647 Rat)
Product Application Details	
Applications	Western Blot, Flow Cytometry
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:50-1:100

Images

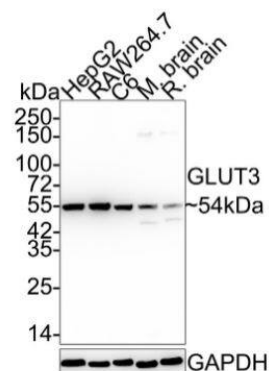
Western Blot: Glut3 Antibody (JA50-31) [NBP2-66872] - Upregulation of Glut1 (NB300-666) and Glut3 (NBP2-66872) expression by Aqp9 gene deletion and ONC. Western blots for Glut1 and Glut3 protein expression levels in WT and Aqp9 KO mice with and without ONC. Beta actin was used as a control. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32748371/>) licensed under a CC-BY license.



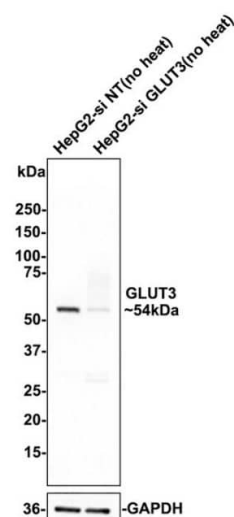
Flow Cytometry: Glut3 Antibody (JA50-31) [NBP2-66872] - Analysis of SH-SY5Y cells with Glucose Transporter GLUT3 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).



Western Blot: Glut3 Antibody (JA50-31) [NBP2-66872] - Analysis of Glucose Transporter GLUT3 on different lysates with Rabbit anti-Glucose Transporter GLUT3 antibody at 1/5,000 dilution. Lane 1: HepG2 cell lysate (20 ug/Lane) Lane 2: RAW264.7 cell lysate (20 ug/Lane) Lane 3: C6 cell lysate (20 ug/Lane) Lane 4: Mouse brain tissue lysate (20 ug/Lane) Lane 5: Rat brain tissue lysate (20 ug/Lane) Predicted band size: 54 kDa Observed band size: 54 kDa Exposure time: 24 seconds; 4-20% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody at 1/5,000 dilution was used in 5% NFDN/TBST at 4c overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:50,000 dilution was used for 1 hour at room temperature.



Western Blot: Glut3 Antibody (JA50-31) [NBP2-66872] - Analysis of Glucose Transporter GLUT3 on different lysates with Rabbit anti-Glucose Transporter GLUT3 antibody at 1/1,000 dilution. Lane 1: HepG2-si NT cell lysate (10 ug/Lane) Lane 2: HepG2-si Glucose Transporter GLUT3 cell lysate (10 ug/Lane) Predicted band size: 54 kDa Observed band size: 54 kDa Exposure time: 1 minute; ECL: merk 4-20% SDS-PAGE gel. NBP2-66872 was shown to specifically react with Glucose Transporter GLUT3 in HepG2-si NT cells. Weakened band was observed when HepG2-si Glucose Transporter GLUT3 sample was tested. HepG2-si NT and HepG2-si Glucose Transporter GLUT3 samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDN in TBST for 1 hour at room temperature. The primary antibody (1/1,000) and Loading control antibody (Rabbit anti-GAPDH, 1/10,000) were used in 5% BSA at room temperature for 2 hours. Goat Anti-rabbit IgG-HRP Secondary Antibody at 1:100,000 dilution was used for 1 hour at room temperature.



Publications

He Q, Ji L, Wang Y, Zhang Y et Al. Acetate enables metabolic fitness and cognitive performance during sleep disruption Cell Metab 2024-08-20 [PMID: 39163862]

Mori, S, Kurimoto, T Et al. Aqp9 Gene Deletion Enhances Retinal Ganglion Cell (RGC) Death and Dysfunction Induced by Optic Nerve Crush: Evidence that Aquaporin 9 Acts as an Astrocyte-to-Neuron Lactate Shuttle in Concert with Monocarboxylate Transporters To Support RGC Function and . Mol Neurobiol 2020-11-01 [PMID: 32748371] (ICC/IF, Human)

Wessendarp M, Watanabe-Chailland M, Liu S Et al. Role of GM-CSF in regulating metabolism and mitochondrial functions critical to macrophage proliferation Mitochondrion 2021-11-01 [PMID: 34740864] (FLOW, Mouse)

Uddin MM, Ibrahim MMH, Aryal D, Briski KP Sex-dimorphic moderate hypoglycemia preconditioning effects on Hippocampal CA1 neuron bio-energetic and anti-oxidant function Mol. Cell. Biochem. 2020-08-10 [PMID: 32779041] (WB, Rat)

Briski K, Mandal S Hindbrain lactoprivic regulation of hypothalamic neuron transactivation and gluco-regulatory neurotransmitter expression: Impact of antecedent insulin-induced hypoglycemia Neuropeptides 2019-08-01 [PMID: 31488323] (WB, Rat)





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Products Related to NBP2-66872

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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.

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