

Datasheet for ABIN7043696

anti-SLC2A3 antibody (1st Extracellular Loop)



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3 Images

Overview

Quantity:	25 µL
Target:	SLC2A3
Binding Specificity:	1st Extracellular Loop, AA 39-52
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC2A3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KDFLNYLEERLED, corresponding to amino acid residues 39-52 of rat Glucose Transporter 3
Isotype:	IgG
Cross-Reactivity (Details):	Will not recognize human GLUT3.
Characteristics:	Anti-GLUT3 (extracellular) Antibody (ABIN7043696, ABIN7044485 and ABIN7044486)) is a highly specific antibody directed against an epitope of the rat Glucose Transporter 3 protein. The antibody can be used in western blot, immunohistochemistry, and live cell flow cytometry applications. The antibody has been designed to recognize GLUT3 from rat and mouse samples. It will not recognize GLUT3 from human samples.

Product Details

Purification: Affinity purified on immobilized antigen.

Target Details

Target:	SLC2A3
Alternative Name:	GLUT3 (SLC2A3 Products)
Background:	Alternative names: GLUT3, Glucose transporter 3, Facilitated glucose transporter member 3, SLC2A3
Gene ID:	25551
NCBI Accession:	NM_006931
UniProt:	Q07647
Pathways:	Warburg Effect

Application Details

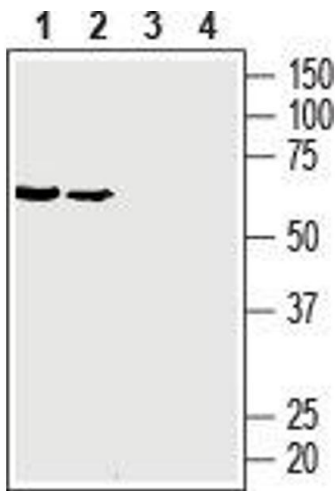
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and</p>

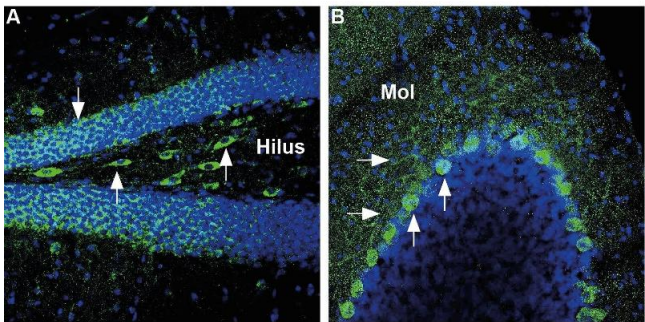
thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



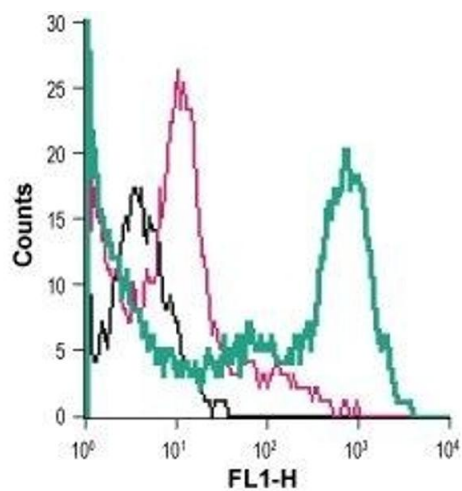
Western Blotting

Image 1. Western blot analysis of rat brain membranes (lanes 1 and 3) and mouse brain membranes (lanes 2 and 4): - 1, 2. Anti-GLUT3 (extracellular) Antibody (ABIN7043696, ABIN7044485 and ABIN7044486), (1:400).3, 4. Anti-GLUT3 (extracellular) Antibody, preincubated with GLUT3 (extracellular) Blocking Peptide (#BLP-GT023).



Immunohistochemistry

Image 2. Expression of Glucose transporter 3 in mouse hippocampus and cerebellum - Immunohistochemical staining of perfusion-fixed frozen mouse brain sections with Anti-GLUT3 (extracellular) Antibody (ABIN7043696, ABIN7044485 and ABIN7044486), (1:200), followed by goat anti-rabbit-AlexaFluor-488. A. GLUT3 staining (green) in mouse hippocampal dentate gyrus, is detected in interneurons (arrows pointing up) in the Hilus and granule layer (G) (arrow pointing down). B. Staining in mouse cerebellum, is seen in purkinje cells (vertical arrows) and dendrites (horizontal arrows) in the molecular layer (Mol). Cell nuclei were stained with DAPI (blue).



Flow Cytometry

Image 3. Cell surface detection of Glucose transporter 3 in live intact mouse J774 macrophage cell line: (black line) Cells.(red line) Cells + goat-anti-rabbit-FITC.(green line) Cells + Anti-GLUT3 (extracellular) Antibody (ABIN7043696, ABIN7044485 and ABIN7044486), (5 µg) + goat-anti-rabbit-FITC.