

GLUT3 Rabbit pAb

Catalog # AP96290

Product Information

Application	WB
Primary Accession	P32037
Other Accession	P32037
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53479
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse GLUT3
Epitope Specificity	431-496/496
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein. Melanosome.
SIMILARITY	Belongs to the coronaviruses spike protein family. {ECO:0000305}.
Post-translational modifications	he cytoplasmic Cys-rich domain is palmitoylated. Spike glycoprotein is digested by cathepsin CTSL within endosomes. {ECO:0000269 PubMed:17134730}.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	May act as a glucose transporter in neurons; may mediate increasd glucose uptake in response to neuronal injury. Glucose is fundamental to the metabolism of mammalian cells. Several glucose transporter protein (Glut) isoforms have been identified and shown to function in response to insulin and IGF1 induced signaling. GLUT3 is detectable in a few normal cell type spermatids in testis with active spermatogenesis, placental trophoblast membranes, and neurons in brain. GLUT3 staining is also detectable in human cancers including those of the ovary, lung, and testis. Alternative names: FLJ90380; Glucose Transporter Type 3; Glucose transporter type 3 brain; GLUT 3; GLUT3; SLC2A3; Solute Carrier Family 2 (Facilitated Glucose Transporter) Member 3.

Additional Information

Gene ID	20527
Other Names	GLUT3; Glut-3; GTR3_HUMAN; SLC2A3; Glucose transporter type 3, brain (GLUT-3); GTR3_MOUSE; GTR3_RAT; solute carrier family 2 member 3; solute carrier family 2 (facilitated glucose transporter), member 3
Target/Specificity	Highly expressed in brain. Expressed in many tissues.

Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Slc2a3 {ECO:0000312 MGI:MGI:95757}
Function	Facilitative glucose transporter (PubMed: 35810171). Can also mediate the uptake of various other monosaccharides across the cell membrane (By similarity). Mediates the uptake of glucose, 2- deoxyglucose, galactose, mannose, xylose and fucose, and probably also dehydroascorbate (By similarity). Does not mediate fructose transport (By similarity). Required for mesendoderm differentiation (PubMed: 35810171).
Cellular Location	Cell membrane; Multi-pass membrane protein {ECO:0000250 UniProtKB:P11169}. Perikaryon {ECO:0000250 UniProtKB:Q07647}. Cell projection {ECO:0000250 UniProtKB:Q07647}. Note=Localized to densely spaced patches along neuronal processes. {ECO:0000250 UniProtKB:Q07647}
Tissue Location	Expressed in spermatozoa (at protein level) (PubMed:35618043). Detected in brain (at protein level) (PubMed:1730609). Abundantly expressed in the hippocampus, cerebellum and cerebral cortex with lower expression in the dentate gyrus and piriform cortex (PubMed:1730609).

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