

Product datasheet for **TA321792S**

Glucose Transporter GLUT3 (SLC2A3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Human colorectal cancer tissue lysate IHC: 10-50 Positive control: Human tonsil Predicted cell location: Cytoplasm and Cell membrane
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide peptide corresponding to a region derived from 466-479 amino acids of human solute carrier family 2 (facilitated glucose transporter), member 3
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	54 kDa
Gene Name:	solute carrier family 2 member 3
Database Link:	NP_008862 Entrez Gene 6515 Human P11169



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Background:

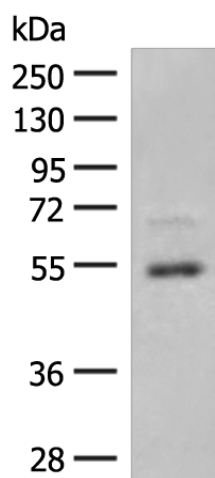
Glucose transporter 3 (or GLUT3); also known as solute carrier family 2; facilitated glucose transporter member 3 (SLC2A3) is a protein that in humans is encoded by the SLC2A3 gene. GLUT3 facilitates the transport of glucose across the plasma membranes of mammalian cells. GLUT3 is most known for its specific expression in neurons and has originally been designated as the neuronal GLUT. GLUT3 has been studied in other cell types with specific glucose requirements; including sperm; preimplantation embryos; circulating white blood cells and carcinoma cell lines. GLUT3 has both a higher affinity for glucose and at least a fivefold greater transport capacity than GLUT1; GLUT2 and GLUT4; which is particularly significant for its role in neuronal glucose transport; where ambient glucose levels are fivefold lower than in serum.

Synonyms:

GLUT3

Protein Families:

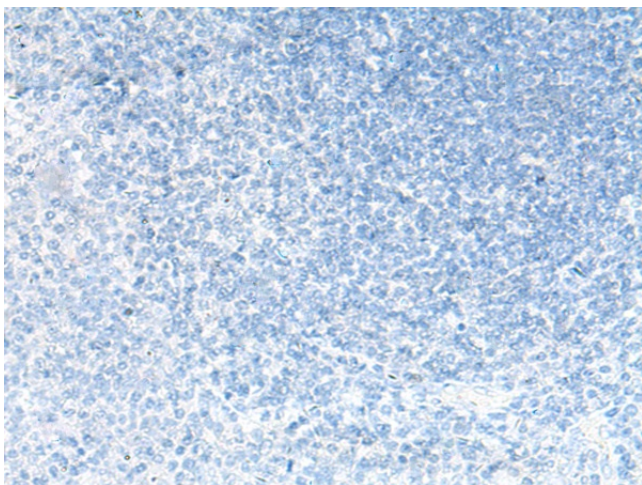
Transmembrane

Product images:

Gel: 8%SDS-PAGE
Lysate: 40 µg
Lane: Human colorectal cancer tissue lysate
Primary antibody: [TA321792] (SLC2A3 Antibody) at dilution 1/200
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 5 minutes



Immunohistochemistry of paraffin-embedded Human tonsil tissue using [TA321792] (SLC2A3 Antibody) at dilution 1/20 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human tonsil tissue using [TA321792] (SLC2A3 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: $\times 200$)