SLC1A5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC1A5, Polyclonal Antibody
Full Product Name	SLC1A5 Rabbit pAb
Product Gene Name	anti-SLC1A5 antibody
Product Synonym Names	R16; AAAT; ATBO; M7V1; RDRC; ASCT2; M7VS1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	60kDa
OMIM	109190
3D Structure	ModBase 3D Structure for Q15758
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-100 of human SLC1A5 (NP_005619.1).
Cellular Localization	Cell Membrane, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SLC1A5 antibody	Western Blot (WB)
Application Notes for anti-SLC1A5 antibody	WB: 1:500-1:2000
Related Product Information for anti-SLC1A5 antibody	Sodium-dependent amino acids transporter that has a broad substrate specificity, with a preference for zwitterionic amino acids. It accepts as substrates all neutral amino acids, including glutamine, asparagine, and branched-chain and aromatic amino acids, and excludes methylated, anionic, and cationic amino acids (PubMed:8702519). Through binding of the fusogenic protein syncytin-1/ERVW-1 may mediate trophoblasts syncytialization, the spontaneous fusion of their plasma membranes, an essential process in placental development (PubMed:10708449, PubMed:23492904).
Other Notes	Small volumes of anti-SLC1A5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SLC1A5 purchase	MBS8548733 is an antibody targeting SLC1A5. Also known as SLC1A5 Rabbit pAb. Reactive in Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC1A5. It may not necessarily be applicable to this product.

NCBI GI #	5032093

NCBI GeneID	6510
NCBI Accession #	NP_005619.1
UniProt Primary Accession #	Q15758
UniProt Related Accession #	Q15758
GenBank Nucleotide #	NP_005619.1
NCBI Official Full Name	neutral amino acid transporter B(0) isoform 1
NCBI Official Synonym Full Names	solute carrier family 1 member 5
NCBI Official Symbol	SLC1A5
NCBI Official Synonym Symbols	R16; AAAT; ATBO; M7V1; RDRC; ASCT2; M7VS1
UniProt Protein Name	Neutral amino acid transporter B(0)
UniProt Synonym Protein Names	Baboon M7 virus receptor; RD114/simian type D retrovirus receptor; Sodium-dependent neutral amino acid transporter type 2; Solute carrier family 1 member 5
Protein Family	Neutral amino acid transporter
UniProt Gene Name	SLC1A5
UniProt Synonym Gene Names	ASCT2; M7V1; RDR; RDRC; ATB(0)
UniProt Entry Name	AAAT_HUMAN
NCBI Protein Information	neutral amino acid transporter B(0)
NCBI Summary for SLC1A5	The SLC1A5 gene encodes a sodium-dependent neutral amino acid transporter that can act as a receptor for RD114/type D retrovirus (Larriba et al., 2001 [PubMed 11781704]).[supplied by OMIM, Jan 2011]
UniProt Comments for SLC1A5	SLC1A5: Has a broad substrate specificity, a preference for zwitterionic amino acids, and a sodium-dependence. It accepts as substrates all neutral amino acids, including glutamine, asparagine, and branched-chain and aromatic amino acids, and excludes methylated amino acids, anionic amino acids, and cationic amino acids. Act as a cell surface receptor for feline endogenous virus RD114, baboon M7 endogenous virus and type D simian retroviruses. Placenta, lung, skeletal muscle, kidney, pancreas, and intestine. Belongs to the sodium:dicarboxylate (SDF) symporter (TC 2.A.23) family. SLC1A5 subfamily. 1 isoforms of the human protein are produced by alternative initiation. Protein type: Membrane protein, integral; Transporter; Transporter, SLC family; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: Golgi apparatus; membrane; integral to plasma membrane; melanosome; plasma membrane Molecular Function: viral receptor activity; L-serine transmembrane transporter activity; protein binding; neutral amino acid transmembrane transporter activity; receptor activity; L-glutamine transmembrane transporter activity; sodium:dicarboxylate symporter activity Biological Process: neutral amino acid transport; extracellular amino acid transport; entry of virus into host cell; amino acid transport; dicarboxylic acid transport; ion transport; glutamine transport; transmembrane transport; L-serine transport
Research Articles on SLC1A5	**1.** Relative to structures of other SLC1 members, ASCT2 is in the most extreme inward-oriented state, with the transport domain largely detached from the central scaffold domain on the cytoplasmic side
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