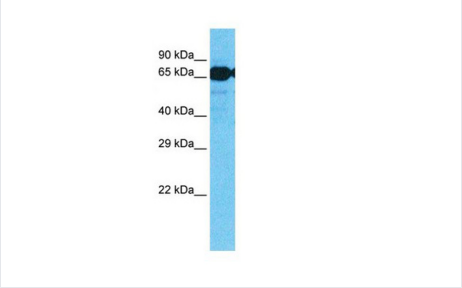
SLC7A8 Antibody – Rabbit Polyclonal

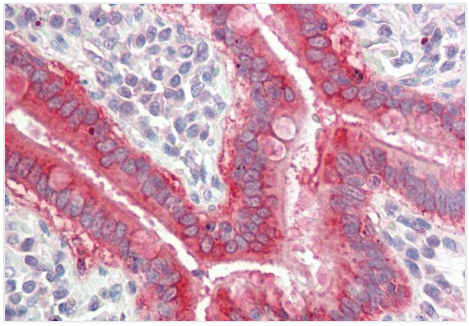
PRODUCT OVERVIEW

Product Name	SLC7A8/LAT2, Polyclonal Antibody
Full Product Name	SLC7A8/LAT2 Rabbit anti-Human Polyclonal (aa63-112) Antibody
Product Gene Name	anti-SLC7A8 antibody
Product Synonym Gene Name	SLC7A8/LAT2
Product Synonym Names	IHC-plus SLC7A8/LAT2 Antibody (aa63-112); SLC7A8; HLAT2; LPI-PC1; Integral membrane protein E16H
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS, 0.09% sodium azide, 2% sucrose
Purity/Purification	Protein A purified
Concentration	1mg/ml (lot specific)
Specificity	100% homologous to isoforms 1 (58kDa), 2 (37kDa), 3 (35kDa) and 4 (48kDa) of human SLC7A8.
Preparation and Storage	Short term: Store at 2-8 degree C. Long term: Aliquot and store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	48,283 Da
OMIM	604235
3D Structure	ModBase 3D Structure for Q9UHI5
Target	Human SLC7A8/LAT2
Immunogen	Synthetic peptide located between aa63-112 of human SLC7A8 (NP_877392). Percent identity by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon, Monkey, Galago, Marmoset, Mouse, Rat, Hamster, Elephant, Panda, Bovine, Bat, Rabbit, Horse, Pig, Guinea pig, Platypus, Xenopus, Stickleback, Zebrafish (100%); Dog, Opossum, Turkey, Zebra finch, Chicken (92%).
Conjugation	Unconjugated
Epitope	aa63-112
Family	Transporter
Subfamily	Cationic amino acid transporter
Applications Tested/Suitable for anti-SLC7A8 antibody	Immunohistochemistry (IHC), Immunohistochemistry-Paraffin (IHC-P), Western Blot (WB)
Application Notes for anti-SLC7A8 antibody	IHC-P: 10ug/ml Western Blot: Suggested dilution at 1.25ug/ml in 5% skim milk/PBS buffer, and HRP conjugated anti-Rabbit IgG should be diluted in 1:50000-100000 as second antibody.
Related Product Information for anti-SLC7A8 antibody	LAT2 antibody is an unconjugated rabbit polyclonal antibody to LAT2 (SLC7A8)(aa63-112) from human. It is reactive with human, mouse, rat and other species. Validated for IHC and WB. Tested on 20 paraffin-embedded human tissues.

Other Notes	Small volumes of anti-SLC7A8 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 SLC7A8 purchase	MBS2402141 is an antibody targeting SLC7A8. Also known as SLC7A8/LAT2 Rabbit anti-Human Polyclonal (aa63-112) Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SLC7A8 antibody
SLC7A8/LAT2 Antibody-Fetal Liver cell lysate. Antibody concentration: 1.0ug/ml. This image was taken for the unconjugated form of this product. Other forms have not been tested.



Immunohistochemistry (IHC) of anti-SLC7A8 antibody
SLC7A8/LAT2 Antibody-Anti-SLC7A8/LAT2 antibody IHC staining of human small intestine. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/ml. This image was taken for the unconjugated form of this product. Other forms have not been tested.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC7A8. It may not necessarily be applicable to this product.

NCBI GI #	33286428
NCBI GeneID	23428
NCBI Accession #	NP_036376.2
UniProt Primary Accession #	Q9UHI5
UniProt Secondary Accession #	Q86U05; Q9UKQ6; Q9UKQ7; Q9UKQ8; Q9Y445; B2R8Q4; B4DKT4; B4DTV6; D3DS46; F2Z2J4
UniProt Related Accession #	Q9UHI5
GenBank Nucleotide #	NM_012244
NCBI Official Full Name	large neutral amino acids transporter small subunit 2 isoform a
NCBI Official Synonym Full Names	solute carrier family 7 (amino acid transporter light chain, L system), member 8
NCBI Official Symbol	SLC7A8
NCBI Official Synonym Symbols	LAT2; LPI-PC1
UniProt Protein Name	Large neutral amino acids transporter small subunit 2
UniProt Synonym Protein Names	L-type amino acid transporter 2; hLAT2; Solute carrier family 7 member 8
Protein Family	Large neutral amino acids transporter
UniProt Gene Name	SLC7A8
UniProt Synonym Gene Names	LAT2; hLAT2
UniProt Entry Name	LAT2_HUMAN
NCBI Protein Information	large neutral amino acids transporter small subunit 2

UniProt Comments for SLC7A8	SLC7A8: Sodium-independent, high-affinity transport of small and large neutral amino acids such as alanine, serine, threonine, cysteine, phenylalanine, tyrosine, leucine, arginine and tryptophan, when associated with SLC3A2/4F2hc. Acts as an amino acid exchanger. Has higher affinity for L-phenylalanine than LAT1 but lower affinity for glutamine and serine. L-alanine is transported at physiological concentrations. Plays a role in basolateral (re)absorption of neutral amino acids. Involved in the uptake of methylmercury (MeHg) when administered as the L-cysteine or D,L-homocysteine complexes, and hence plays a role in metal ion homeostasis and toxicity. Involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO) across the transmembrane. Plays an essential role in the reabsorption of neutral amino acids from the epithelial cells to the bloodstream in the kidney. Belongs to the amino acid-polyamine-organocation (APC) superfamily. L-type amino acid transporter (LAT) (TC 2.A.3.8) family. Protein type: Transporter, SLC family; Membrane protein, multi-pass; Transporter; Membrane protein, integral Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: basolateral plasma membrane; cytoplasm; integral to plasma membrane; plasma membrane Molecular Function: amino acid transmembrane transporter activity; antiporter activity; L-amino acid transmembrane transporter activity; neutral amino acid transmembrane transporter activity; organic cation transmembrane transporter activity; peptide antigen binding; protein binding; toxin transporter activity Biological Process: amino acid metabolic process; amino acid transport; blood coagulation; ion transport; leukocyte migration; metal ion homeostasis; neutral amino acid transport; organic cation transport; response to toxin; transmembrane transport; transport
Research Articles on SLC7A8	**1.** Compared with the adult cerebral cortex, mRNAs encoding OATP1A2, OATP1C1, OATP3A1 variant 2, OATP4A1, LAT2 and CD98 were reduced in fetal cortex at different gestational ages, whilst mRNAs encoding MCT8, MCT10, OATP3A1 variant 1 and LAT1 were similar.
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