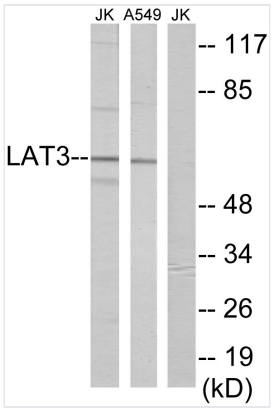
LAT3 Antibody

PRODUCT OVERVIEW

Product Name	LAT3, Antibody
Full Product Name	LAT3 Antibody
Product Gene Name	anti-LAT3 antibody
Product Synonym Names	L-type amino acid transporter 3; LAT3; large neutral amino acids transporter small subunit 3; prostate cancer overexpressed gene 1 protein; solute carrier family 43 member 1
Species Reactivity	Human
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	LAT3 antibody detects endogenous levels of total LAT3 protein.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	61,051 Da
OMIM	603733
3D Structure	ModBase 3D Structure for O75387
Immunogen	The antiserum was produced against synthesized peptide derived from internal of human LAT3.
Product Categories/Family for anti-LAT3 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-LAT3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-LAT3 antibody	WB: 1:500~1:1000 ELISA: 1:20000
Related Product Information for anti-LAT3 antibody	MBS851922 is an antibody targeting LAT3. Also known as LAT3 Antibody. Reactive in Human.
Product References and Citations for anti-LAT3 antibody	Cole K.A., Genomics 51:282-287(1998). Babu E., J. Biol. Chem. 278:43838-43845(2003). Chuaqui R.F., Urology 50:302-307(1997).
Other Notes	Small volumes of anti-LAT3 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.



Western Blot (WB) of anti-LAT3 antibody
Western blot analysis of extracts from Jurkat cells and A549 cells, using LAT3 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LAT3. It may not necessarily be applicable to this product.

NCBI GI #	311771737
NCBI GeneID	8501
NCBI Accession #	NP_001185739.1
UniProt Primary Accession #	O75387
UniProt Related Accession #	O75387
GenBank Nucleotide #	NM_001198810.1
NCBI Official Full Name	large neutral amino acids transporter small subunit 3
NCBI Official Synonym Full Names	solute carrier family 43 member 1
NCBI Official Symbol	SLC43A1
NCBI Official Synonym Symbols	LAT3; PB39; POV1; R00504
UniProt Protein Name	Large neutral amino acids transporter small subunit 3
UniProt Synonym Protein Names	L-type amino acid transporter 3; Prostate cancer overexpressed gene 1 protein; Solute carrier family 43 member 1
UniProt Gene Name	SLC43A1
NCBI Protein Information	large neutral amino acids transporter small subunit 3
NCBI Summary for LAT3	SLC43A1 belongs to the system L family of plasma membrane carrier proteins that transports large neutral amino acids (Babu et al., 2003 [PubMed 12930836]).[supplied by OMIM, Mar 2008]
UniProt Comments for LAT3	Sodium-independent, high affinity transport of large neutral amino acids. Has narrower substrate selectivity compared to SLC7A5 and SLC7A8 and mainly transports branched-chain amino acids and phenylalanine. Plays a role in the development of human prostate cancer, from prostatic intraepithelial neoplasia to invasive prostate cancer.
Research Articles on LAT3	**1.** LAT3 is a transporter subserving system L2 and should denote a new family of organic solute transporters
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