

Product datasheet for **TA500631**

LAT2 (SLC7A8) Mouse Monoclonal Antibody [Clone ID: OTI2D4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2D4
Applications:	FC, IF
Recommended Dilution:	IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human SLC7A8 (NP_036376) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.91 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	58.4 kDa
Gene Name:	solute carrier family 7 member 8
Database Link:	NP_036376 Entrez Gene 50934 Mouse Entrez Gene 84551 Rat Entrez Gene 23428 Human Q9UHI5



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Background:

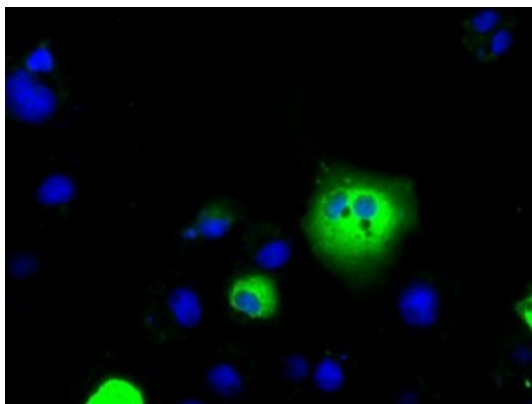
Sodium-independent, high-affinity transport of small and large neutral amino acids such as alanine, serine, threonine, cysteine, phenylalanine, tyrosine, leucine, arginine and tryptophan, when associated with SLC3A2/4F2hc. Acts as an amino acid exchanger. Has higher affinity for L-phenylalanine than 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.

Synonyms:

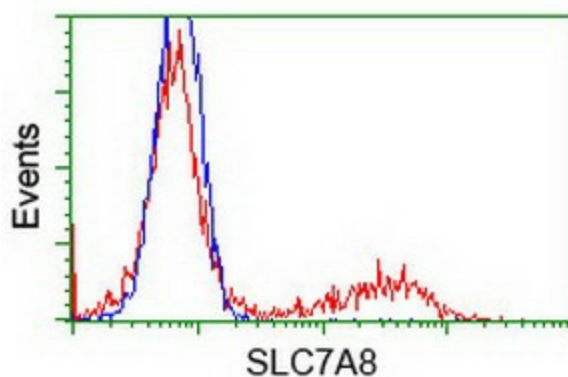
LAT2; LPI-PC1

Protein Families:

Druggable Genome, Transmembrane

Product images:

Anti-SLC7A8 mouse monoclonal antibody (TA500631) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SLC7A8 ([RC208586]).



HEK293T cells transfected with either [RC208586] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SLC7A8 antibody (TA500631), and then analyzed by flow cytometry.