10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat anti-SLC7A6 / y+LAT-2 Antibody

Peptide-affinity purified goat antibody
Catalog # AF4449a

Specification

Goat anti-SLC7A6 / y+LAT-2 Antibody - Product Information

Application	**WB, IHC, Pep-ELISA**
Primary Accession	Q92536
Other Accession	NP_003974.3
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**56828**

Goat anti-SLC7A6 / y+LAT-2 Antibody - Additional Information

Gene ID 9057

Other Names
SLC7A6; solute carrier family 7 (amino acid transporter light chain, y+L system), member 6; LAT-2; LAT3; y+LAT-2; Y+L amino acid transporter 2; amino acid permease; cationic amino acid transporter, y+ system; solute carrier family 7 (cationic amino acid t

Dilution
WB~~1:1000
IHC~~1:100~500
Pep-ELISA~~N/A

Format
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Immunogen
Reported variants represent identical protein: NP_003974.3, NP_001070253.1

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat anti-SLC7A6 / y+LAT-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat anti-SLC7A6 / y+LAT-2 Antibody - Protein Information

Name SLC7A6 (HGNC:11064)

Function
Heterodimer with SLC3A2, that functions as an antiporter which operates as an efflux route by exporting cationic amino acids such as L-arginine from inside the cells in exchange with neutral amino acids like L-leucine, L-glutamine and isoleucine, plus sodium ions and may participate in nitric oxide synthesis (PubMed:10903140, PubMed:11311135, PubMed:14603368, PubMed:15756301, PubMed:16785209, PubMed:17329401, PubMed:19562367, PubMed:31705628, PubMed:9829974). Also exchanges L-arginine with L-lysine in a sodium-independent manner (PubMed:10903140). The transport mechanism is electroneutral and operates with a stoichiometry of 1:1 (PubMed:10903140). Contributes to ammonia-induced increase of L-arginine uptake in cerebral cortical astrocytes leading to ammonia-dependent increase of nitric oxide (NO) production via inducible nitric oxide synthase (iNOS) induction, and protein nitration (By similarity). May mediate transport of ornithine in retinal pigment epithelial (RPE) cells (PubMed:17197568). May also transport glycine betaine in a sodium dependent manner from the cumulus granulosa into the enclosed oocyte (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
Expressed in normal fibroblasts and those from LPI patients (PubMed:11078698). Also expressed in HUVECs, monocytes, RPE cells, and various carcinoma cell lines (PubMed:11742806, PubMed:14603368, PubMed:15280038, PubMed:17197568, PubMed:17329401) Expressed in brain, heart, testis, kidney, small intestine and parotis (PubMed:10903140). Highly expressed in T lymphocytes (PubMed:31705628)

Goat anti-SLC7A6 / y+LAT-2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat anti-SLC7A6 / y+LAT-2 Antibody - Images