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Goat Anti-SLC7A7 / y+LAT-1 Antibody (N Terminus)

Purified Goat Polyclonal Antibody
Catalog # AF4319a

Product Information

Application	WB, E
Primary Accession	Q9UM01
Other Accession	NP_001119577.1, 9056
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	55991

Additional Information

Gene ID	9056
Other Names	SLC7A7; solute carrier family 7 (amino acid transporter light chain, y+L system), member 7; LAT3; LPI; MOP-2; Y+LAT1; y+LAT-1; Y+L amino acid transporter 1; monocyte amino acid permease 2; solute carrier family 7 (cationic amino acid transporter, y+ syste
Target/Specificity	Reported variants represent identical protein: NP_001119577.1, NP_001119578.1
Dilution	WB~~1:1000 E~~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	Peptide with sequence SQPEVETSPLGD-C, from the N Terminus of the protein sequence according to NP_001119577.1.
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-SLC7A7 / y+LAT-1 Antibody (N Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

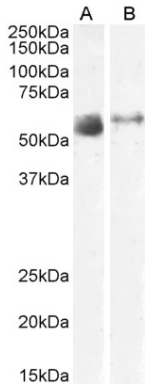
Name	SLC7A7 (HGNC:11065)
Function	Heterodimer with SLC3A2, that functions as an antiporter which operates as an efflux route by exporting cationic amino acids from inside the cells in

	exchange with neutral amino acids plus sodium ions and may participate in nitric oxide synthesis via the transport of L-arginine (PubMed:10080182, PubMed:10655553, PubMed:14603368, PubMed:15756301, PubMed:15776427, PubMed:17329401, PubMed:9829974, PubMed:9878049). Also mediates arginine transport in non-polarized cells, such as monocytes, and is essential for the correct function of these cells (PubMed:15280038, PubMed:31705628). The transport mechanism is electroneutral and operates with a stoichiometry of 1:1 (By similarity). In vitro, Na(+) and Li(+), but also H(+), are cotransported with the neutral amino acids (By similarity).
Cellular Location	Basolateral cell membrane; Multi-pass membrane protein
Tissue Location	Highest expression in kidney and peripheral blood leukocytes (PubMed:9829974). Weaker expression is observed in lung, heart, placenta, spleen, testis and small intestine (PubMed:9829974) Expressed in normal fibroblasts and those from LPI patients (PubMed:10080183, PubMed:11078698). Also expressed in HUVECs, monocytes, retinal pigment epithelial cells, and various carcinoma cell lines, with highest expression in a colon-carcinoma cell line (PubMed:11742806, PubMed:15280038, PubMed:17197568, PubMed:17329401)

References

Nguyen HT, Merlin D.Nguyen HT, Merlin D.Nguyen HT, Merlin D.Nguyen HT, Merlin D.

Images



AF4319a (2 µg/ml) staining of Human Lung (A) and Skeletal Muscle (B) lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.