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Anti-SLC7A3 Antibody

Catalog # AP96057

Product Information

Application	WB, IHC, FC
Primary Accession	Q8WY07
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	67169

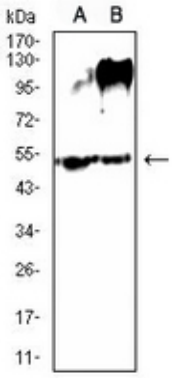
Additional Information

Gene ID	84889
Other Names	ATRC3; CAT3; CationIC, amino acid transporter 3; CAT-3; CAT3; CationIC, amino acid transporter y+; Solute carrier family 7 member 3
Target/Specificity	Recombinant fusion protein of human SLC7A3 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

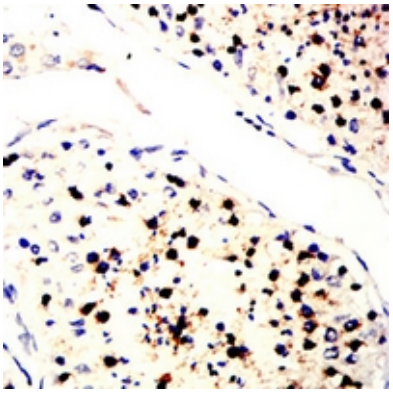
Protein Information

Name	SLC7A3 (HGNC:11061)
Synonyms	ATRC3, CAT3
Function	Uniporter that mediates the uptake of cationic L-amino acids such as L-arginine, L-lysine and L-ornithine (PubMed:11591158). The transport is sodium ions- and pH-independent, moderately trans- stimulated and is mediated by passive diffusion (PubMed:11591158).
Cellular Location	Cell membrane; Multi-pass membrane protein.
Tissue Location	Highly expressed in thymus, uterus and testis (PubMed:11591158). Detected at lower levels in brain, mammary gland, prostate, salivary gland and fetal spleen (PubMed:11591158). In brain, highest expression in thalamus, hippocampus and amygdala (PubMed:11591158).

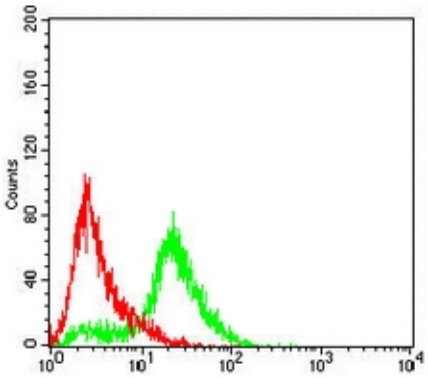
Images



Western blot analysis of SLC7A3 expression in mouse lung (A), rat lung (B) whole cell lysates. (Predicted band size: 67 kD; Observed band size: 50 kD)



Immunohistochemical analysis of SLC7A3 staining in human testis formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HeLa cells using Anti-SLC7A3 Antibody (green) and negative control (red).