LAT1 polyclonal antibody

Catalog: BS66252 Host: Rabbit Reactivity: Human, Mouse, Rat

BackGround:

The heterodimer with SLC3A2 functions as sodium-independent, high-affinity transporter that mediates uptake of large neutral amino acids such as phenylalanine, tyrosine, L-DOPA, leucine, histidine, methionine and tryptophan. Functions as an amino acid exchanger. May play a role in the transport of L-DOPA across the blood-brain barrier (By similarity. May act as the major transporter of tyrosine in fibroblasts (Probable. May mediate blood-to-retina L-leucine transport across the inner blood-retinal barrier (By similarity. Can mediate the transport of thyroid hormones triiodothyronine (T3 and thyroxine (T4 across the cell membrane. When associated with LAPTM4B, the heterodimer formed by SLC3A2 and SLC7A5 is recruited to lysosomes to promote leucine uptake into these organelles, and thereby mediates mTORC1 activation. Involved in the uptake of toxic methylmercury (MeHg when administered as the L-cysteine or D,L-homocysteine complexes. Involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO across the membrane.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 45 kDa

Swiss-Prot:

Q01650

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB,1:500 - 1:2000

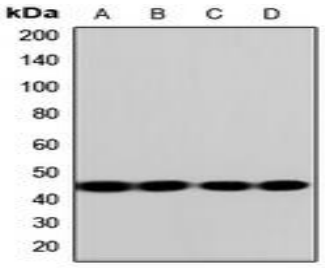
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

LAT1 polyclonal antibody detects endogenous levels of LAT1 protein.

DATA:



Western blot analysis of LAT1 expression in MCF7 (A), HepG2 (B), mouse brain (C), rat liver (D) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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