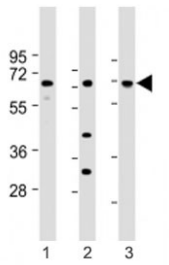
LAT2 Antibody (C-Terminal Region) (F54139)

Catalog No.	Formulation	Size
F54139-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54139-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q9UHI5
Applications	WB: 1:1000-1:2000
Limitations	This LAT2 antibody is available for research use only.



Western blot testing of LAT2 antibody at 1:1000: Lane 1) human brain, 2) kidney and 3) liver lysate. Predicted molecular weight ~58 kDa.

Description

LAT2 / Large neutral amino acids transporter small subunit 2 / SLC7A8 is a sodium-independent, high-affinity transporter 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. [UniProt]

Application Notes

The stated application concentrations are suggested starting points. Titration of the LAT2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 476-506 from human SLC7A8/LAT2 was used as the immunogen for the LAT2 antibody.

Storage

Aliquot the LAT2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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