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Product Information

Recombinant Anti-Human LAT2 Single Domain Antibody

Cat. No.: **NAB-L117**
This product is for research use only and is not intended for diagnostic use.

Product Overview

Single Domain Antibody to human LAT2.

Antigen Description

Sodium-independent, high-affinity transport 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.

Specific Activity

Tested positive against native human antigen.

Target

LAT2

Immunogen

The details of the immunogen for this antibody are not available.

Source

llama

Species Reactivity

Human

Type

llama Single Domain Antibody

Expression Host

E.coli

Storage

Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze/thaw cycles.

ANTIGEN GENE INFOMATION

Gene Name

LAT2 linker for activation of T cells family, member 2 [Homo sapiens]

Official Symbol

LAT2

Synonyms

LAT2; linker for activation of T cells family, member 2; WBSCR5, WBSCR15, Williams Beuren syndrome chromosome region 5; linker for activation of T-cells family member 2; HSPC046; LAB; linker for activation of B cells; linker for activation of T cells; transmembrane adaptor 2; non T cell activation linker; NTAL; WSCR5; non-T-cell activation linker; linker for activation of B-cells; membrane-associated adapter molecule; Williams-Beuren syndrome chromosomal region 5 protein; Williams-Beuren syndrome chromosomal region 15 protein; linker for activation of T cells, transmembrane adaptor 2; WBSCR5; WBSCR15;

Gene ID

7462

mRNA Refseq

NM_014146

Protein Refseq

NP_054865

MIM

605719

UniProt ID

Q9GZY6

Chromosome Location

7q11.23

Pathway

B Cell Receptor Signaling Pathway, organism-specific biosystem; Fc-epsilon receptor I signaling in mast cells, organism-specific biosystem;

Function

SH2 domain binding; protein binding;

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