

SLC43A2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP10062c

Specification

SLC43A2 Antibody (Center) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW Antigen Region FC, WB,E <u>O8N370</u> <u>O8CGA3</u>, <u>O0VCM6</u>, <u>NP_689559.1</u> Human, Mouse Bovine Rabbit Polyclonal Rabbit IgG 62747 236-265

SLC43A2 Antibody (Center) - Additional Information

Gene ID 124935

Other Names

Large neutral amino acids transporter small subunit 4, L-type amino acid transporter 4, Solute carrier family 43 member 2, SLC43A2, LAT4

Target/Specificity

This SLC43A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 236-265 amino acids from the Central region of human SLC43A2.

Dilution FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SLC43A2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC43A2 Antibody (Center) - Protein Information



Name SLC43A2 (HGNC:23087)

Synonyms LAT4

Function Uniporter that mediates the transport of the stereospecific L-phenylalanine, L-methionine and L-branched-chain amino acids, between the extracellular space and the cytoplasm and may control the transepithelial (re)absorption of neutral amino acid in kidney and small intestine (PubMed:<u>15659399</u>, PubMed:<u>30379325</u>). The transport activity is mediated through facilitated diffusion and is sodium ions-, chloride ions- and pH-independent (PubMed:<u>15659399</u>).

Cellular Location

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q8CGA3}. Note=Located at the basolateral membrane in the small intestine enterocytes, kidney proximal tubule, thick ascending limb and, to a minor extent, of distal convoluted tubule epithelial cells. {ECO:0000250|UniProtKB:Q8CGA3}

Tissue Location

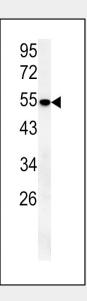
Detected in several tissues with higher expression in placenta, kidney and peripheral blood leukocytes (PubMed:15659399) In the kidney, is detected in epithelial cells of the distal tubule and collecting duct (PubMed:15659399). In the intestine, is expressed mainly in crypt cells of the intestinal microvilli and epithelial cells in the base of the villus (PubMed:15659399)

SLC43A2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

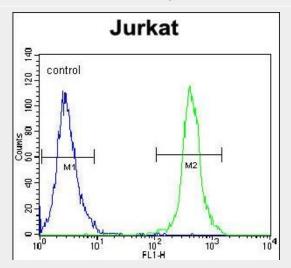
- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

SLC43A2 Antibody (Center) - Images





SLC43A2 Antibody (Center) (Cat. #AP10062c) western blot analysis in mouse lung tissue lysates (15ug/lane). This demonstrates the SLC43A2 antibody detected SLC43A2 protein (arrow).



SLC43A2 Antibody (Center) (Cat. #AP10062c) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

SLC43A2 Antibody (Center) - Citations

• Expression of proposed methionine transporters along the gastrointestinal tract of pigs and their regulation by dietary methionine sources