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SLC43A2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10062c

Product Information

Application	WB, FC, E
Primary Accession	Q8N370
Other Accession	Q8CGA3, Q0VCM6, NP_689559.1
Reactivity	Human, Mouse
Predicted	Bovine, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27716
Calculated MW	62747
Antigen Region	236-265

Additional Information

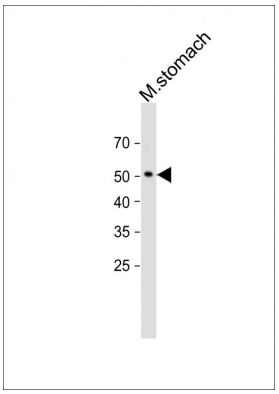
Gene ID	124935
Other Names	Large neutral amino acids transporter small subunit 4, L-type amino acid transporter 4, Solute carrier family 43 member 2, SLC43A2, LAT4
Target/Specificity	This SLC43A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 236-265 amino acids from the Central region of human SLC43A2.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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.

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:15659399, PubMed:30379325, PubMed:26305885). The transport activity is mediated through facilitated diffusion and is sodium ions-, chloride ions- and pH-independent (PubMed:15659399) Mediates the efflux of 3,3'-diiodo-L-thyronine (3,3'-T2) and 3-iodo-L- tyrosine (MIT) (PubMed:26305885).
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)

Images



All lanes: Anti-SLC43A2 Antibody (Center) at 1:1000 dilution + Mouse stomach lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 53 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.