

SLC43A2 Rabbit pAb

Catalog # AP97918

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q8N370
Other Accession	Q8N370
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62747
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC43A2
Epitope Specificity	81-180/569
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SLC43A transporter (TC 2.A.1.44) family.
Post-translational modifications	Glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	System L amino acid transporters, such as SLC43A2, mediate sodium-independent transport of bulky neutral amino acids across cell membranes (Bodoy et al., 2005 [PubMed 15659399]).[supplied by OMIM, Mar 2008]

Additional Information

Gene ID	124935
Other Names	LAT4; RGD1305819; LAT4_HUMAN; SLC43A2; L-type amino acid transporter 4; Solute carrier family 43 member 2; solute carrier family 43 (amino acid system L transporter), member 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SLC43A2 (HGNC:23087)
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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)

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