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SLC43A2 Rabbit pAb

Catalog # AP97918

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q8N370
Other Accession	Q8N370
Predicted	Rat, Pig, Human, Mouse, Rabbit, Zebrafish, Chicken, Dog, Horse, Sheep
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=1:5000-10000
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)

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'.