

SLC38A5 Rabbit pAb

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Catalog # AP57960

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8WUX1
Reactivity	Human
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51457
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC38A5
Epitope Specificity	401-472/472
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBCELLULAR LOCATION	Cell membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a system N sodium-coupled amino acid transporter. The encoded protein transports glutamine, asparagine, histidine, serine, alanine, and glycine across the cell membrane, but does not transport charged amino acids, imino acids, or N-alkylated amino acids. Alternative splicing results in multiple transcript variants, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Aug 2013]

Additional Information

Gene ID	92745
Other Names	Sodium-coupled neutral amino acid transporter 5, Solute carrier family 38 member 5, System N transporter 2, SLC38A5, JM24, SN2 {ECO:0000303 PubMed:11243884}, SNAT5
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	SLC38A5
Synonyms	JM24, SN2 {ECO:0000303 PubMed:11243884},
Function	Symporter that cotransports neutral amino acids and sodium ions, coupled to an H(+) antiporter activity (PubMed: 11243884). Releases L-glutamine and glycine from astroglial cells and may participate in the glutamate/GABA-L-glutamine cycle and the NMDA receptors activation (By similarity). In addition, contributes significantly to L-glutamine uptake in retina, namely in ganglion and Mueller cells therefore, participates in the retinal glutamate- glutamine cycle (By similarity). The transport activity is pH sensitive and Li(+) tolerant (PubMed: 11243884). Moreover functions in both direction and is associated with large uncoupled fluxes of protons (By similarity). The transport is electroneutral coupled to the cotransport of 1 Na(+) and the antiport of 1 H(+) (By similarity). May have a particular importance for modulation of net hepatic glutamine flux (By similarity).
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:A2VCW5}; Multi-pass membrane protein. Note=Localized at astroglial membrane. {ECO:0000250 UniProtKB:A2VCW5}
Tissue Location	Predominantly expressed in stomach, brain, liver, lung and intestinal tract.

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