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SLC38A5 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14098A

Product Information

Application	WB, E
Primary Accession	Q8WUX1
Other Accession	NP_277053.2
Reactivity	Human
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30265
Calculated MW	51457
Antigen Region	1-30

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, SNAT5
Target/Specificity	This SLC38A5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SLC38A5.
Dilution	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	SLC38A5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

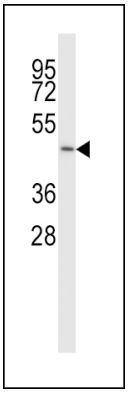
Background

The protein encoded by this gene is a system N sodium-coupled amino acid transporter involved in the transfer of glutamine, asparagine, histidine, serine, alanine, and glycine. The encoded protein does not transport charged amino acids, imino acids, or N-alkylated amino acids. This transporter is not inhibited by lithium.

References

Broer, S. Physiol. Rev. 88(1):249-286(2008)
Froyen, G., et al. Hum. Genet. 121(5):539-547(2007)
Nakanishi, T., et al. Biochem. Biophys. Res. Commun. 281(5):1343-1348(2001)

Images



SLC38A5 Antibody (N-term) (Cat. #AP14098a) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the SLC38A5 antibody detected the SLC38A5 protein (arrow).

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