

SLC38A5 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14098A**Specification**

SLC38A5 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O8WUX1
Other Accession	NP_277053.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	51457
Antigen Region	1-30

SLC38A5 Antibody (N-term) - 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

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.

SLC38A5 Antibody (N-term) - 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

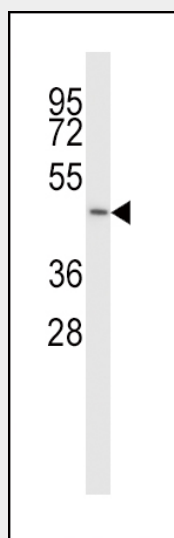
Predominantly expressed in stomach, brain, liver, lung and intestinal tract.

SLC38A5 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC38A5 Antibody (N-term) - 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).

SLC38A5 Antibody (N-term) - 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.

SLC38A5 Antibody (N-term) - 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)