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# SLC38A5 Antibody (N-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP14098A**

## Specification

### SLC38A5 Antibody (N-term) - Product Information

| | |
|---|---|
| Application | **WB,E** |
| Primary Accession | Q8WUX1 |
| 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
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.

### 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}

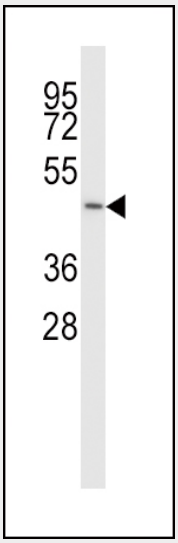
**Tissue Location**
Predominantly expressed in stomach, brain, liver, lung and intestinal tract.

## 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 Cytomety
- 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).

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## 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)