

SLC38A4 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12110**Specification**

SLC38A4 antibody - middle region - Product Information

Application	WB
Primary Accession	O969I6
Other Accession	NM_003345 , NP_060488
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted Host	Rabbit, Chicken, Horse, Bovine, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 17kDa KDa

SLC38A4 antibody - middle region - Additional Information**Gene ID** 55089

Alias Symbol **ATA3, FLJ10191, MGC126876, NAT3, PAAT**

Other Names
Sodium-coupled neutral amino acid transporter 4, Amino acid transporter A3, Na(+)-coupled neutral amino acid transporter 4, Solute carrier family 38 member 4, System A amino acid transporter 3, System N amino acid transporter 3, SLC38A4, ATA3, NAT3, SNAT4

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 100 ul of distilled water. Final anti-SLC38A4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

SLC38A4 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

SLC38A4 antibody - middle region - Protein Information**Name** SLC38A4 ([HGNC:14679](#))**Function**

Symporter that cotransports neutral amino acids and sodium ions from the extracellular to the intracellular side of the cell membrane (PubMed:[11342143](http://www.uniprot.org/citations/11342143), PubMed:[19015196](http://www.uniprot.org/citations/19015196), PubMed:[33928121](http://www.uniprot.org/citations/33928121)). The transport is electrogenic, pH dependent and partially tolerates substitution of Na(+) by Li(+)

(PubMed:11414754). Preferentially transports smaller amino acids, such as glycine, L-alanine, L-serine, L-asparagine and L-threonine, followed by L-cysteine, L-histidine, L- proline and L-glutamine and L-methionine (PubMed:11414754, PubMed:33928121).

Cellular Location

Cell membrane; Multi-pass membrane protein. Cell projection, microvillus membrane; Multi-pass membrane protein Note=Microvillus membrane localization in placenta

Tissue Location

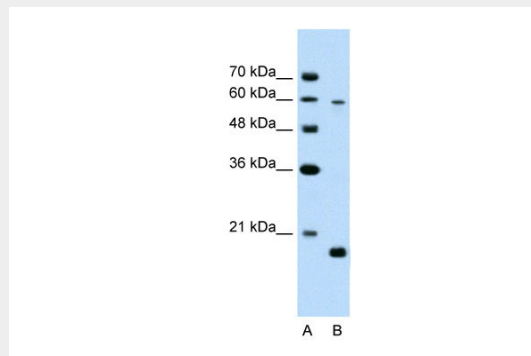
Expressed almost exclusively in embryonic and adult liver, and at lower levels in the kidney (PubMed:11342143, PubMed:11414754). Expressed at lower levels in adult muscle and pancreas (PubMed:11414754). Detected in fetal blood vessels (PubMed:16148032). Expressed in syncytiotrophoblasts of placenta during first trimester and at term (PubMed:19015196, PubMed:16148032). Highly expressed in first trimester placenta compared to term placenta (PubMed:19015196).

SLC38A4 antibody - middle region - 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](#)

SLC38A4 antibody - middle region - Images



WB Suggested Anti-SLC38A4 Antibody Titration: 2.5µg/ml
Positive Control: Jurkat cell lysate

SLC38A4 antibody - middle region - References

Zhu,S.,(2006)Exp.CellRes.312(7),1042-1049ReconstitutionandStorage:Forshorttermuse,storeat2-8C upto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.