

SLC38A4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57959

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q969I6
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60764

Additional Information

Gene ID	55089
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
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	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 , PubMed: 19015196 , PubMed: 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:16148032, PubMed:19015196). Highly expressed in first trimester placenta compared to term placenta (PubMed:19015196).

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