

SLC38A1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57675**Specification**

SLC38A1 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	Q9H2H9
Reactivity	Rat, Pig, Cat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54048

SLC38A1 Polyclonal Antibody - Additional Information**Gene ID** 81539**Other Names**

Sodium-coupled neutral amino acid transporter 1, Amino acid transporter A1, N-system amino acid transporter 2, Solute carrier family 38 member 1, System A amino acid transporter 1, System N amino acid transporter 1, SLC38A1, ATA1, NAT2, SAT1, SNAT1

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

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.

SLC38A1 Polyclonal Antibody - Protein Information**Name** SLC38A1**Function**

Symporter that cotransports short-chain neutral amino acids and sodium ions from the extracellular to the intracellular side of the cell membrane (PubMed:20599747, PubMed:10891391). The transport is elctrogenic, pH dependent and driven by the Na(+) electrochemical gradient (PubMed:10891391). Participates in the astroglia-derived glutamine transport into GABAergic interneurons for neurotransmitter GABA de novo synthesis (By similarity). May also contributes to amino acid transport in placental trophoblasts (PubMed:20599747). Also regulates synaptic plasticity (PubMed:12388062).

Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9J M15} Note=Restricted

to the somatodendritic compartment of neurons. Found in the cellular processes of neurons in the developing brain {ECO:0000250|UniProtKB:Q9JM15}

Tissue Location

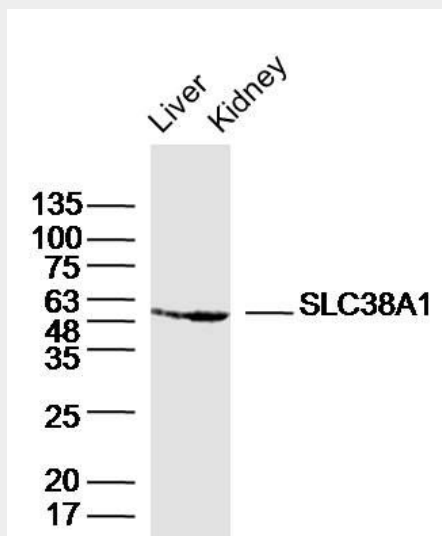
Expressed in the cerebral cortex by pyramidal and GABAergic neurons, astrocytes and other non-neuronal cells (at protein level). Expressed in placenta, heart, lung, skeletal muscle, spleen, stomach and testis (PubMed:10891391, PubMed:12388062, PubMed:15054072, PubMed:16148032). Highly expressed in cytotrophoblast cells from term placenta (PubMed:20599747).

SLC38A1 Polyclonal Antibody - 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](#)

SLC38A1 Polyclonal Antibody - Images



Sample:

Liver (Mouse) Lysate at 40 ug

Kidney (Mouse) Lysate at 40 ug

Primary: Anti- SLC38A1 (bs-19825R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 54kD

Observed band size: 54kD