

SLC17A5 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12351**Specification**

SLC17A5 antibody - N-terminal region - Product Information

Application	IHC, WB
Primary Accession	O9NRA2
Other Accession	NM_012434 , NP_036566
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Sheep, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Rat, Rabbit, Zebrafish, Chicken, Horse, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55kDa kDa

SLC17A5 antibody - N-terminal region - Additional Information**Gene ID** 26503**Alias Symbol** AST, FLJ22227, FLJ23268, ISSD, NSD, SD, SIALIN, SIASD, SLD**Other Names**

Sialin, H(+)/nitrate cotransporter, H(+)/sialic acid cotransporter, AST, Membrane glycoprotein HP59, Solute carrier family 17 member 5, Vesicular H(+)/Aspartate-glutamate cotransporter, SLC17A5

Format

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

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-SLC17A5 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

SLC17A5 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

SLC17A5 antibody - N-terminal region - Protein Information**Name** SLC17A5**Function**

Multifunctional anion transporter that operates via two distinct transport mechanisms, namely proton-coupled anion cotransport and membrane potential-dependent anion transport (PubMed:15510212, PubMed:21781115, PubMed:21781115).

href="http://www.uniprot.org/citations/22778404" target="_blank">22778404, PubMed:23889254). Electroneutral proton-coupled acidic monosaccharide symporter, with a sugar to proton stoichiometry of 1:1. Exports glucuronic acid and free sialic acid derived from sialoglycoconjugate degradation out of lysosomes, driven by outwardly directed lysosomal pH gradient. May regulate lysosome function and metabolism of sialylated conjugates that impact oligodendrocyte lineage differentiation and myelinogenesis in the central nervous system (PubMed:15510212, PubMed:21781115, PubMed:22778404, PubMed:23889254) (By similarity). Electrogenic proton- coupled nitrate symporter that transports nitrate ions across the basolateral membrane of salivary gland acinar cells, with nitrate to proton stoichiometry of 2:1. May contribute to nitrate clearance from serum by salivary glands, where it is further concentrated and secreted in the saliva (PubMed:22778404). Uses membrane potential to drive the uptake of acidic amino acids and peptides into synaptic vesicles. Responsible for synaptic vesicular storage of L-aspartate and L- glutamate in pinealocytes as well as vesicular uptake of N-acetyl-L- aspartyl-L-glutamate neuropeptide, relevant to aspartergic-associated glutamatergic neurotransmission and activation of metabotropic receptors that inhibit subsequent transmitter release (PubMed:21781115, PubMed:22778404, PubMed:23889254) (By similarity).

Cellular Location

Basolateral cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein

Tissue Location

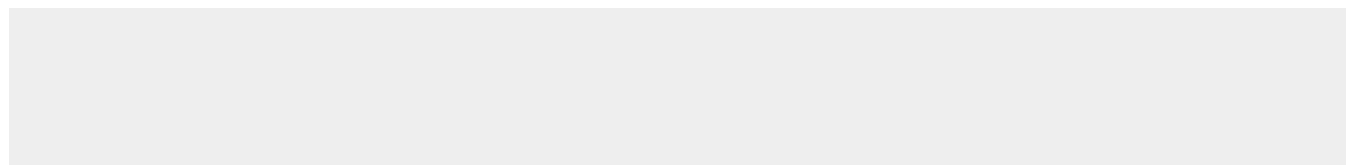
In the adult, detected in placenta, kidney and pancreas. Abundant in the endothelial cells of tumors from ovary, colon, breast and lung, but is not detected in endothelial cells from the corresponding normal tissues (PubMed:10581036, PubMed:11751519) Highly expressed in salivary glands and liver, with lower levels of expression in brain, spleen kidney, muscle and pancreas. Expressed in acinar cells of salivary glands (at protein level) (PubMed:22778404)

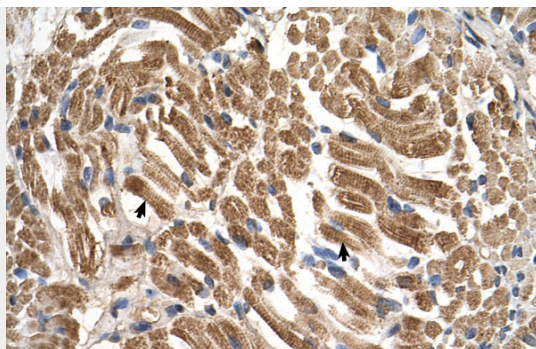
SLC17A5 antibody - N-terminal region - Protocols

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

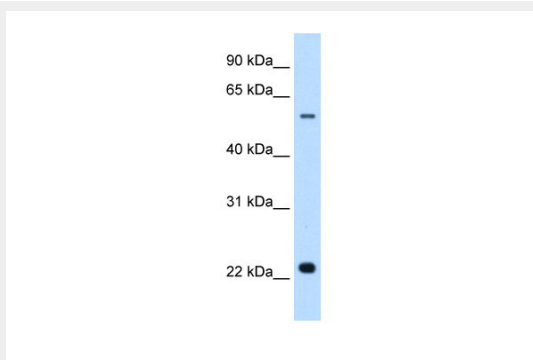
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC17A5 antibody - N-terminal region - Images





Human Muscle



WB Suggested Anti-SLC17A5 Antibody Titration: 0.5µg/ml
Positive Control: 293T cells lysate

SLC17A5 antibody - N-terminal region - References

Myall, N.J., (2007) Mol. Genet. Metab. 92(4), 371-374 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.