

SLC18A1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI10862**Specification**

SLC18A1 antibody - middle region - Product Information

Application	IHC, WB
Primary Accession	P54219
Other Accession	NM_003053 , NP_003044
Reactivity	Human, Mouse, Rat, Rabbit, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56kDa KDa

SLC18A1 antibody - middle region - Additional Information**Gene ID** 6570**Alias Symbol** CGAT, VAT1, VMAT1**Other Names**

Chromaffin granule amine transporter, Solute carrier family 18 member 1, Vesicular amine transporter 1, VAT1, SLC18A1, VAT1, VMAT1

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-SLC18A1 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

SLC18A1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

SLC18A1 antibody - middle region - Protein Information**Name** SLC18A1**Synonyms** VAT1, VMAT1**Function**

[Isoform 1]: Electrogenic antiporter that exchanges one cationic monoamine with two intravesicular protons across the membrane of secretory and synaptic vesicles. Uses the electrochemical proton gradient established by the V-type proton-pump ATPase to accumulate high concentrations of monoamines inside the vesicles prior to their release via exocytosis. Transports catecholamines and indolamines with higher affinity for serotonin (PubMed:23337945, PubMed:23337945).

[8643547](http://www.uniprot.org/citations/8643547), PubMed: [16326835](http://www.uniprot.org/citations/16326835)). Regulates the transvesicular monoaminergic gradient that determines the quantal size. Mediates presynaptic monoaminergic vesicle transport in the amygdala and prefrontal brain regions related with emotion processing in response to environmental stimuli (PubMed: [23337945](http://www.uniprot.org/citations/23337945)).

Cellular Location

Cytoplasmic vesicle, secretory vesicle membrane; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:Q8R090}; Multi-pass membrane protein [Isoform 2]: Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

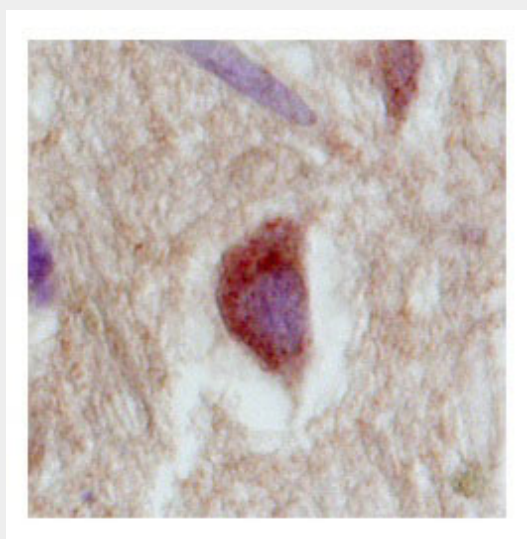
Expressed primarily in neuroendocrine tissues. Highly expressed in chromaffin cells of the adrenal medulla (at protein level). Detected in peripheral sympathetic ganglia (at protein level) Found in some paracrine cells in stomach and duodenum (at protein level) (PubMed:8643547). Expressed in substantia nigra (PubMed:23337945). [Isoform 2]: Expressed in gastrointestinal tract.

SLC18A1 antibody - middle region - Protocols

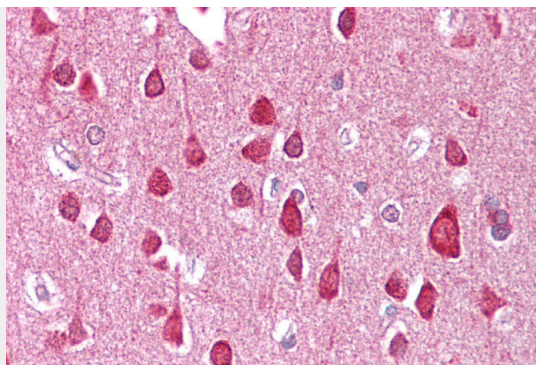
Provided below are standard protocols that you may find useful for product applications.

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

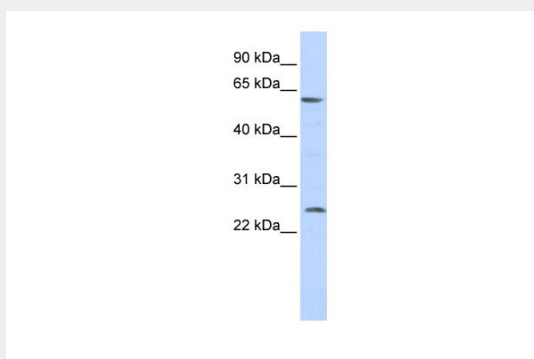
SLC18A1 antibody - middle region - Images



Immunohistochemistry with Brain, cortex tissue at an antibody concentration of 2.5µg/ml using anti-SLC18A1 antibody (AI10862)



Brain, cortex



WB Suggested Anti-SLC18A1 Antibody Titration: 0.2-1 μ g/ml

ELISA Titer: 1:62500

Positive Control: 293T cell lysate

SLC18A1 antibody - middle region - References

Lohoff, F.W., (et al) Neuropsychobiology 57 (1-2), 55-60 (2008) In press
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.