

SLC6A1 / GAT-1 Antibody (aa372-421)
Rabbit Polyclonal Antibody
Catalog # ALS17135**Specification**

SLC6A1 / GAT-1 Antibody (aa372-421) - Product Information

Application	IHC-P, WB
Primary Accession	P30531
Other Accession	6529
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	67074

SLC6A1 / GAT-1 Antibody (aa372-421) - Additional Information**Gene ID** 6529**Other Names**

SLC6A1, GABA transporter, GABA transporter 1, GABT1, GAT1, GABATHG, GABATR, GAT-1, GAT 1

Target/Specificity

SLC6A1 Antibody antibody detects endogenous levels of SLC6A1.

Reconstitution & Storage

PBS, pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol. Store at -20°C.

Precautions

SLC6A1 / GAT-1 Antibody (aa372-421) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC6A1 / GAT-1 Antibody (aa372-421) - Protein Information**Name** SLC6A1**Synonyms** GABATR, GABT1, GAT1**Function**

Mediates transport of gamma-aminobutyric acid (GABA) together with sodium and chloride and is responsible for the reuptake of GABA from the synapse (PubMed: [30132828](http://www.uniprot.org/citations/30132828)). The translocation of GABA, however, may also occur in the reverse direction leading to the release of GABA (By similarity). The direction and magnitude of GABA transport is a consequence of the prevailing thermodynamic conditions, determined by membrane potential and the intracellular and extracellular concentrations of Na(+), Cl(-) and GABA (By similarity). Can also mediate sodium- and chloride-dependent transport of hypotaurine but to a much lower extent as compared to GABA (By similarity).

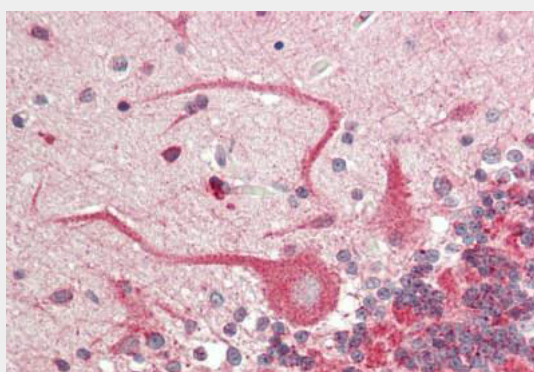
Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P23978}; Multi-pass membrane protein. Presynapse {ECO:0000250|UniProtKB:P31648}. Note=Localized at the presynaptic terminals of interneurons. {ECO:0000250|UniProtKB:P31648}

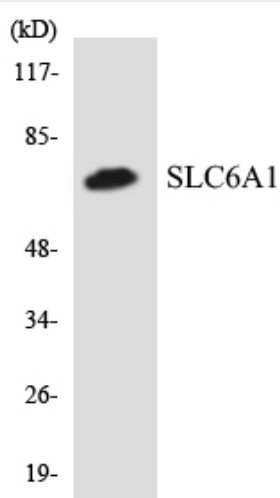
SLC6A1 / GAT-1 Antibody (aa372-421) - Protocols

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](#)

SLC6A1 / GAT-1 Antibody (aa372-421) - Images

Human Brain, Cerebellum: Formalin-Fixed, Paraffin-Embedded (FFPE)



Western blot of the lysates from HeLa cells using SLC6A1 antibody.

SLC6A1 / GAT-1 Antibody (aa372-421) - Background

Terminates the action of GABA by its high affinity sodium-dependent reuptake into presynaptic terminals.

SLC6A1 / GAT-1 Antibody (aa372-421) - References

Nelson H., et al. FEBS Lett. 269:181-184(1990).
Muzny D.M., et al. Nature 440:1194-1198(2006).