

SLC6A1 / GAT1 Antibody

Rabbit mAb

Catalog # AP91743

Product Information

Application	WB
Primary Accession	P30531
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	GABATHG; GABATR; GABT1; GAT1; Slc6a1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	67074

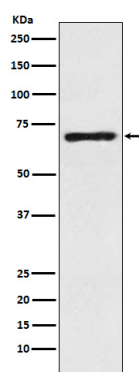
Additional Information

Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human SLC6A1 / GAT1
Description	Terminates the action of GABA by its high affinity sodium-dependent reuptake into presynaptic terminals.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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). 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}

Images



Western blot analysis of GABA Transporter 1 / GAT 1 expression in Human fetal brain lysate.

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