

GABA Transporter (GAT) 2 Antibody | anti-SLC6A13 antibody

Anti-GABA Transporter (GAT) 2

CATALOG # AAA72787	APPLICATIONS Immunohistochemistry, Western Blot
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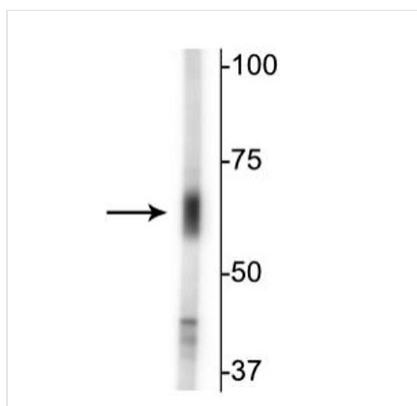
PRODUCT SYNONYMS

GABA Transporter (GAT) 2; Anti-GABA Transporter (GAT) 2; anti-SLC6A13 antibody

PRODUCT SPECIFICATIONS

Specificity	Specific for the ~67k GAT2 protein.
Purity/Purification	Prepared from rabbit serum by affinity purification using a column to which the peptideimmunogen was coupled.
Form/Format	100ul in 10mM HEPES (pH7.5), 150mM NaCl, 100ug per ml BSA and 50% glycerol. Adequate amount of material to conduct 10-mini Western blots.
Applicable Applications for anti-SLC6A13 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Antigen	Peptide corresponding to amino acid residues from the C-terminal region of rat GAT-2.
Biological Significance	Gamma-aminobutyric acid (GABA) is the primary inhibitory neurotransmitter in the central nervous system, causing a hyperpolarization of the membrane through the opening of a Cl ⁻ channel associated with the GABAAreceptor (GABAA-R) subtype.GABA plasma membrane transporters (GATs) influence synaptic neurotransmission by high-affinity uptake and release of GABA. To date,four distinct GABA transporters have been identified: GAT-1, GAT-2, GAT-3, and BGT-1. GAT-2 is found in a wide range of neuronal and non-neuronal cells including dendrites and axon terminals as well as epithelial cells and cells forming the pia and arachnoid complex (Conti et al., 1999).
Preparation and Storage	For long term storage -80°C is recommended, but shorter term storage at -20°C is also acceptable as aliquots may be taken without freeze/thawing due to the presense of 50% glycerol. Stock solution are stable for a minimum of 1 year at -20°C.

IMAGES



WB (Western Blot)

Western blot of mouse whole brain lysate showing specific immunolabeling of the ~67 kDa GAT-2protein.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC6A13 antibody	Affinity purified rabbit polyclonal antibody
References	• Conti F, Zucharello LV, Barbaresi P, Minelli A, Brecha NC, Melone M, (1999) Neuronal, glial, and epithelial localization of gamma-aminobutyric acid transporter 2, a high affinity gamma-aminobutyric acid plasma membrane transporter, in the cerebral cortex and neighboring structures. J. Comp Neurol. 409(3): 482-494.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19424348
NCBI GeneID	171163
NCBI Accession #	NP_598307.1
NCBI GenBank Nucleotide #	NM_133623.1
UniProt Accession #	P31646
Molecular Weight	~67kDa
NCBI Official Full Name	sodium- and chloride-dependent GABA transporter 2
NCBI Official Synonym Full Names	solute carrier family 6 (neurotransmitter transporter), member 13
NCBI Official Symbol	Slc6a13
NCBI Official Synonym Symbols	GAT-2
NCBI Protein Information	sodium- and chloride-dependent GABA transporter 2; solute carrier family 6 member 13; solute carrier family 6 (neurotransmitter transporter, GABA), member 13
UniProt Protein Name	Sodium- and chloride-dependent GABA transporter 2
UniProt Gene Name	Slc6a13
UniProt Synonym Gene Names	Gabt2; Gat-2; GAT-2
UniProt Entry Name	S6A13_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.