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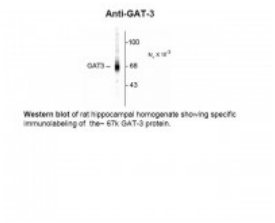
GAT-3 Antibody

CATALOG NUMBER: 50-217



Western blot of rat hippocampal homogenate showing specific immunolabeling of the~ 67k GAT-3 protein.

Specifications	
SPECIES REACTIVITY:	Mouse, Rat
TESTED APPLICATIONS:	IHC, WB
APPLICATIONS:	The antibody has been directly tested for reactivity in Western blots with rat tissue. It is anticipated that the antibody will also react with mouse tissue based on the fact that this species has 100% homology with the amino acid sequence used as antigen.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
PREDICTED MOLECULAR WEIGHT:	67
IMMUNOGEN:	Peptide corresponding to amino acid residues from the C-terminal region of rat GAT-3.
HOST SPECIES:	Rabbit

Properties	
PURIFICATION:	Affinity Purified
PHYSICAL STATE:	Liquid
BUFFER:	100 uL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per mL BSA and 50% glycerol.
STORAGE CONDITIONS:	GAT-3 antibody can be stored at -20˚C and is stable at -20˚C for at least 1 year.
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated

Additional Info	
ALTERNATE NAMES:	Gat3, Gabt4, Gabt3, Gat-3, Gat-b, Solute carrier family 6 member 11, GAT-3
ACCESSION NO.:	P31647
PROTEIN GI NO.:	400626
OFFICIAL SYMBOL:	Slc6a11
GENE ID:	79213

Background

BACKGROUND:	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 GABAA receptor (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-3 has been found to be localized to astrocytes within the cerebral cortex indicating that this transporter mediates GABA uptake into glial cells (Minelli et al., 1996).
REFERENCES:	1) Minelli A, DeBiasi S, Brecha NC, Zuccarello LV, Conti F (1996) GAT-3, a high-affinity GABA plasma membrane transporter, is localized to astrocytic processes, and is not confined to the vicinity of GABAergic synapses in the cerebral cortex. J. Neurosci. 16(19):6255-64.

FOR RESEARCH USE ONLY

December 13, 2016