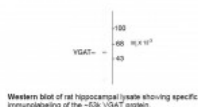




Vesicular GABA transporter Antibody

CATALOG NUMBER: 50-194

Anti-Vesicular GABA Transporter (VGAT)



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~53k VGAT protein.

Specifications

SPECIES REACTIVITY:	Bovine, Dog, Rat
TESTED APPLICATIONS:	WB
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
PREDICTED MOLECULAR WEIGHT:	53
IMMUNOGEN:	Peptide corresponding to amino acid residues from the N-terminal region of rat Vesicular GABA Amino Acid Transporter (VGAT).
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:	Vesicular GABA transporter 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:	Vgat, Viaat, Vgat, GABA and glycine transporter,
ACCESSION NO.:	O35458
PROTEIN GI NO.:	29428082
OFFICIAL SYMBOL:	Slc32a1
GENE ID:	83612

Background

BACKGROUND: The Vesicular GABA Amino Acid Transporter (VGAT) is responsible for transport of the inhibitory

neurotransmitter into synaptic vesicles (McIntire et al., 1997). The VGAT protein (also known as the Vesicular Inhibitory Amino Acid Transporter or VIAAT) is expressed in synaptic vesicles of both glycinergic and GABAergic synapses throughout the CNS (Chaudhry et al., 1998). Expression of the VGAT protein changes during development and also in response to patterns of neuronal activity (De et al., 2005).

REFERENCES:

- 1) Chaudhry FA, Reimer RJ, Bellocchio EE, Danbolt NC, Osen KK, Edwards RH, Storm-Mathisen J (1998) The vesicular GABA transporter, VGAT, localizes to synaptic vesicles in sets of glycinergic as well as GABAergic neurons. *J Neurosci* 18:9733-9750.
 - 2) De GS, Schafer MK, Defamie N, Chen C, Ricci A, Weihe E, Varoqui H, Erickson JD (2005) Homeostatic scaling of vesicular glutamate and GABA transporter expression in rat neocortical circuits. *J Neurosci* 25:7121-7133.
 - 3) McIntire SL, Reimer RJ, Schuske K, Edwards RH, Jorgensen EM (1997) Identification and characterization of the vesicular GABA transporter. *Nature (Lond)* 389:870-876.
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FOR RESEARCH USE ONLY

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