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Datasheet for 612-401-E53

Vesicular GABA transporter (VGAT) Antibody

Overview

Description:	Anti-Vesicular GABA transporter (VGAT) (RABBIT) Antibody - 612-401-E53
Item No.:	612-401-E53
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Mouse, Rat, Chicken
Host Species:	Rabbit

Product Details

Background:	Vesicular GABA transporter antibody recognizes Vesicular GABA Amino Acid Transporter (VGAT) which is responsible for transport of the inhibitory neurotransmitter into synaptic vesicles. The VGAT protein (also known as the Vesicular Inhibitory Amino Aid Transporter or VIAAT) is expressed in synaptic vesicles of both glycine and GABAergic synapses throughout the CNS. Expression of the VGAT protein changes during development and also in response to patterns of neuronal activity. Therefore, Vesicular GABA transporter antibody is ideal for investigators involved in Neuronal Circuitry and, more generally in Neuroscience.
Synonyms:	Vesicular inhibitory amino acid transporter, GABA and glycine transporter, Solute carrier family 32 member 1, Vesicular GABA transporter, rGVAT
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Slc32a1
Reactivity:	Mouse, Rat, Chicken
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Vesicular GABA transporter Antibody was produced in rabbit by repeated immunizations with synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

Purity/Specificity:	Anti-Vesicular GABA transporter antibody is affinity purified from monospecific antiserum by immunoaffinity purification. This antibody is directed against rat VGAT. Expect reactivity with the following species based on sequence homology: bovine, canine, non-human primate. Cross reactivity with VGAT from other species has not been determined.
Relevant Links:	• UniProtKB - O35458 • GeneID - 83612 • UniProtKB - O35458.1

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-VGAT antibody is tested for use in ELISA, IHC, ICC, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 53 kDa in size corresponding to vesicular GABA transporter protein in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

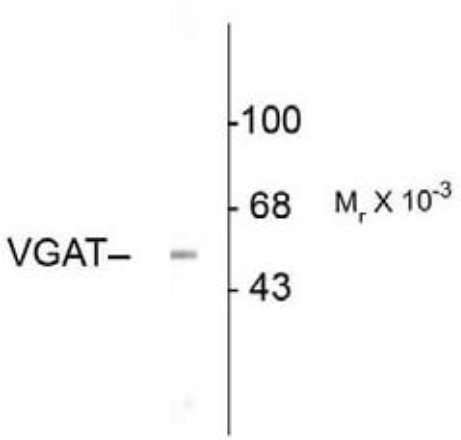
Formulation

Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit anti-Vesicular GABA transporter antibody. Lane 1: rat hippocampal lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Vesicular GABA transporter antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 53 kDa for Vesicular GABA transporter. Other band(s): none.

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