

**Datasheet for 612-401-E53****Vesicular GABA transporter (VGAT) Antibody****Overview**

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

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	Vesicular inhibitory amino acid transporter, GABA and glycine transporter, Solute carrier family 32 member 1, Vesicular GABA transporter, rGVAT
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	Slc32a1
<b>Reactivity:</b>	Mouse, Rat, Chicken
<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	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

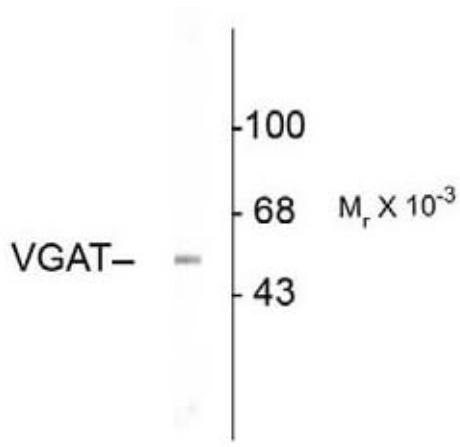
## Shipping & Handling

**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.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.