Datasheet for ABIN7043718

anti-SLC32A1 antibody (Cytosolic, N-Term)

3 Images

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Overview

Quantity:	25 µL
Target:	SLC32A1
Binding Specificity:	AA 106-120, Cytosolic, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This SLC32A1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)GEFGGHDKPKITAWE, corresponding to amino acid residues 106-120 of rat vesicular GABA transporter
Isotype:	IgG
Characteristics:	Guinea pig Anti-Vesicular GABA Transporter (VGAT) Antibody (#), raised in guinea pigs, is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot analysis. It has been designed to recognize VGAT from mouse, rat, and human samples. The antigen used to immunize guinea pigs is the same as Anti-Vesicular GABA Transporter (VGAT) Antibody (ABIN7043719, ABIN7044467 and ABIN7044468)) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.

Product Details

Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	SLC32A1
Alternative Name:	Vesicular GABA Transporter (VGAT) (SLC32A1 Products)
Background:	Alternative names: Vesicular GABA Transporter (VGAT), Vesicular inhibitory amino acid transporter, VIAAT, GABA and glycine transporter, rGVAT, SLC32A1
Gene ID:	83612
NCBI Accession:	NM_080552
UniProt:	O35458
Pathways:	Proton Transport

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

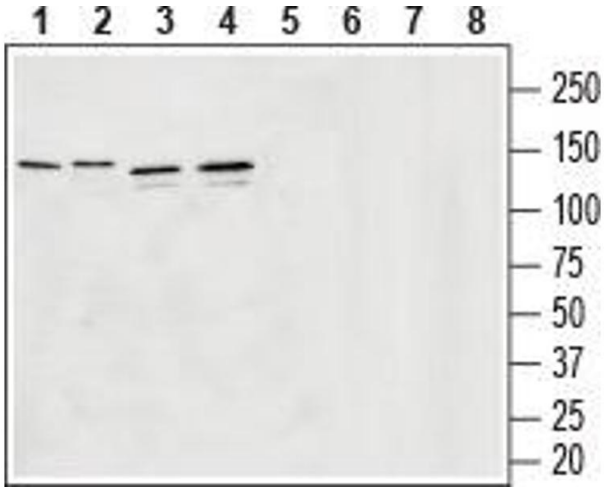
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and

Handling

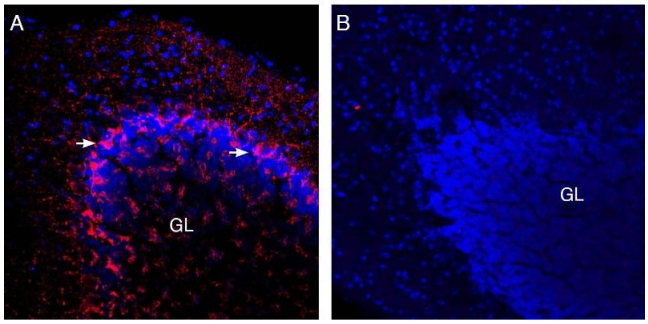
thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



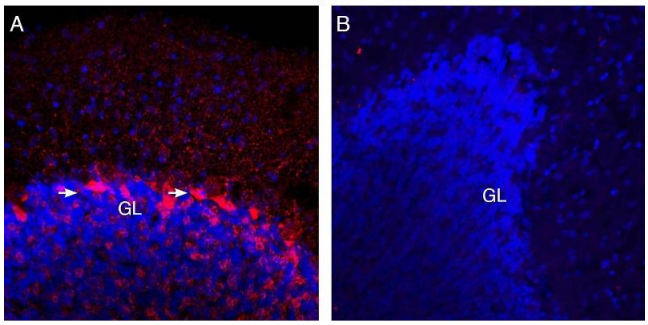
Western Blotting

Image 1. Western blot analysis of rat brain membranes (lanes 1 and 5), mouse brain membranes (lanes 2 and 6), human U-87 MG glyoblastoma lysates (lanes 3 and 7) and human SH-SY5Y brain neuroblastoma lysates (lanes 4 and 8): - 1-4. Guinea pig Anti-Vesicular GABA Transporter (VGAT) Antibody (ABIN7043718, ABIN7045434 and ABIN7045435), (1:200).5-8. Guinea pig Anti-Vesicular GABA Transporter (VGAT) Antibody, preincubated with Vesicular GABA Transporter/VGAT Blocking Peptide (#BLP-GT005).



Immunohistochemistry

Image 2. Expression of VGAT in mouse cerebellum. - Immunohistochemical staining of perfusion-fixed frozen mouse brain sections with Guinea pig Anti-Vesicular GABA Transporter (VGAT) Antibody (ABIN7043718, ABIN7045434 and ABIN7045435), (1:600), followed by goat anti-guinea pig-AlexaFluor-594. A. VGAT immunoreactivity (red) appears in the granule layer (GL) and in ""pinceau"" structures adjacent to purkinje cells (arrows). B. Pre-incubation of the antibody with Vesicular GABA Transporter/VGAT Blocking Peptide (#BLP-GT005), suppressed staining. Cell nuclei are stained with DAPI (blue).



Immunohistochemistry

Image 3. Expression of VGAT in rat cerebellum. - Immunohistochemical staining of perfusion-fixed frozen rat brain sections with Guinea pig Anti-Vesicular GABA Transporter (VGAT) Antibody (ABIN7043718, ABIN7045434 and ABIN7045435), (1:600), followed by goat anti-guinea pig-AlexaFluor-594. A. VGAT immunoreactivity (red) appears in the granule layer (GL) and in ""pinceau"" structures adjacent to purkinje cells (arrows). B. Pre-incubation of the antibody with Vesicular GABA Transporter/VGAT Blocking Peptide (#BLP-GT005), suppressed staining. Cell nuclei are stained with DAPI (blue).

