Datasheet for ABIN2855225

anti-SLC32A1 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	SLC32A1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Multiplex Immunohistochemistry (mIHC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the N-terminus region of human VGAT. The exact sequence is proprietary.
Isotype:	IgG
Characteristics:	Rabbit Polyclonal antibody to VGAT (solute carrier family 32 (GABA vesicular transporter), member 1) VGAT antibody [N1N2], N-term
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	SLC32A1
Alternative Name:	VGAT (SLC32A1 Products)

Target Details

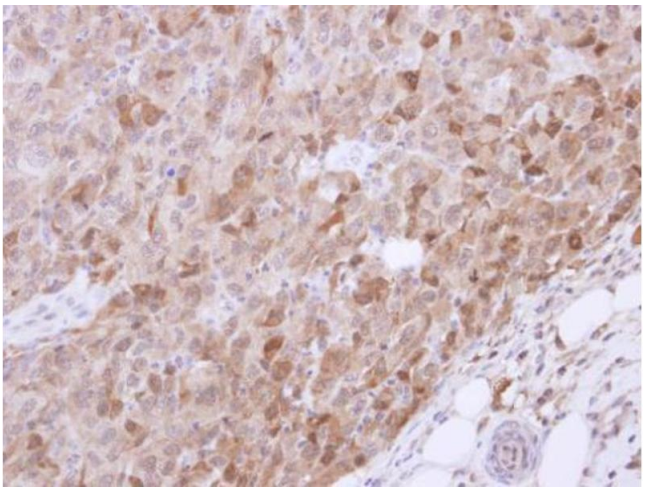
Background:	The protein encoded by this gene is an integral membrane protein involved in gamma-aminobutyric acid (GABA) and glycine uptake into synaptic vesicles. The encoded protein is a member of amino acid/polyamine transporter family II. Cellular Localization: Cytoplasmic vesicle membrane, Multi-pass membrane protein
Molecular Weight:	57 kDa
Gene ID:	140679
Pathways:	Proton Transport

Application Details

Application Notes:	Suggested dilution Reference IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceIHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Western blot1:500-1:3000*
Comment:	Positive Control: U87-MG , mouse brain
Restrictions:	For Research Use only

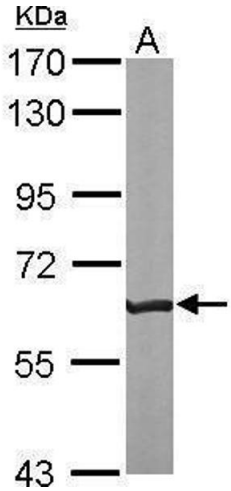
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS, 1 % BSA, 20 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.



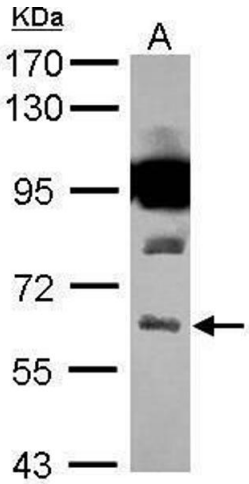
Immunohistochemistry

Image 1. IHC-P Image Immunohistochemical analysis of paraffin-embedded CL1-5 xenograft, using VGAT, antibody at 1:500 dilution.



Western Blotting

Image 2. WB Image Sample (50 ug of whole cell lysate) A: Mouse brain 7.5% SDS PAGE antibody diluted at 1:1000



Western Blotting

Image 3. WB Image Sample (30 ug of whole cell lysate) A: U87-MG 7.5% SDS PAGE antibody diluted at 1:1000

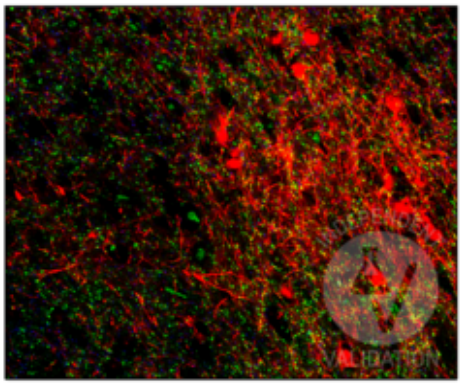
Successfully validated (Multiplex Immunohistochemistry (mIHC))

by Akoya Biosciences

Report Number: 104339

Date: Apr 20 2021

Target:	SLC32A1
Lot Number:	42838
Method validated:	Multiplex Immunohistochemistry (mIHC)
Positive Control:	FFPE normal human cortex
Negative Control:	Unlabeled control (FFPE normal human cortex)
Notes:	Passed. The anti-SLC32A1 antibody ABIN2855225 produces punctate staining in close approximation with dendritic processes. This pattern is consistent with presynaptic staining, which is the expected site of SLC31A1 immunofluorescence.
Primary Antibody:	ABIN2855225
Protocol:	• Protocol details are described in the Akoya Biosciences CODEX® User Manual (see https://www.akoyabio.com/wp-content/uploads/2021/01/CODEX-User-Manual.pdf). • Tissue preparation as outlined in the Akoya Biosciences CODEX® User Manual fresh-frozen tissue protocol. • Conjugation of the anti-SLC32A1 antibody ABIN2855225 to an oligo barcode used to bind oligo-conjugated fluorophore AF488.
Experimental Notes:	• No signal was detected in unlabeled specimens. • Specific staining of SLC32A1 was observed with human FFPE cortical tissue sections with both citrate antigen retrieval and EDTA antigen retrieval. • Optimal staining and signal to noise ratios were obtained if tissue was pre-treated for autofluorescence removal (see https://www.akoyabio.com/wp-content/uploads/2020/07/Customer-Demonstrated-Protocol-Autofluorescence-Quenching-Mar2020.pdf).



Validation image no. 1 for anti-Solute Carrier Family 32 (GABA Vesicular Transporter), Member 1 (SLC32A1) (N-Term) antibody (ABIN2855225)

FFPE normal human cortex tissue section labeled with anti-SLC32A1 antibody ABIN2855225 (green; bound to fluorophore AF488) after EDTA antigen retrieval. MAP2 and SYN1 were labeled with anti-MAP2 antibody ABIN125739 (red; bound to fluorophore ATTO 550) and anti-SYN1 antibody ABIN5542390 (blue; bound to fluorophore AF488).

