

Datasheet for ABIN7043681

**anti-Solute Carrier Family 17 (Vesicular Glutamate
Transporter), Member 6 (SLC17A6) (AA 45-56), (Cytosolic),
(N-Term) antibody**



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3 Images

Overview

Quantity:	25 µL
Target:	Solute Carrier Family 17 (Vesicular Glutamate Transporter), Member 6 (SLC17A6)
Binding Specificity:	AA 45-56, Cytosolic, N-Term
Reactivity:	Rat, Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)EDGKPLEVPEKK, corresponding to amino acid residues 45-56 of rat VGLUT2
Isotype:	IgG
Characteristics:	Anti-VGLUT2 Antibody (ABIN7043681, ABIN7044370 and ABIN7044371)) is a highly specific antibody directed against an epitope of rat Vesicular glutamate transporter 2. The antibody can be used in western blot analysis and immunohistochemistry applications. It has been designed to recognize VGLUT2 from rat, mouse and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

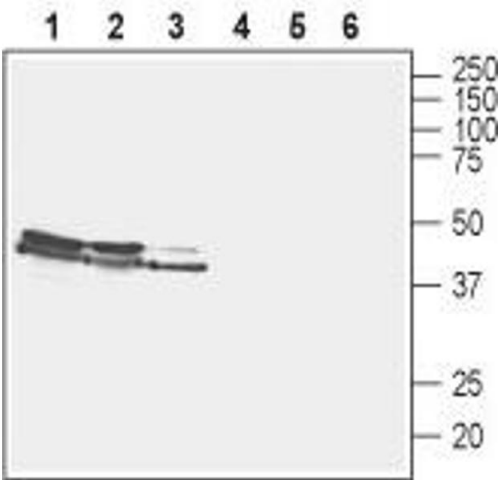
Target:	Solute Carrier Family 17 (Vesicular Glutamate Transporter), Member 6 (SLC17A6)
Alternative Name:	VGLUT2 (SLC17A6 Products)
Background:	Alternative names: VGLUT2, Vesicular glutamate transporter 2, Differentiation-associated Na ⁺ -dependent inorganic phosphate cotransporter, DNPI, SLC17A6
Gene ID:	84487
NCBI Accession:	NM_020346
UniProt:	Q9JI12

Application Details

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

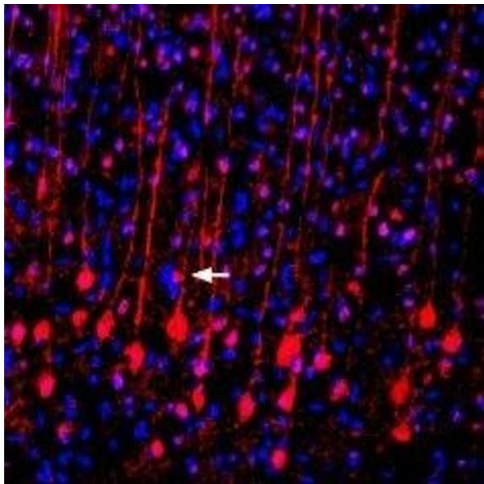
Handling

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:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>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 thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>



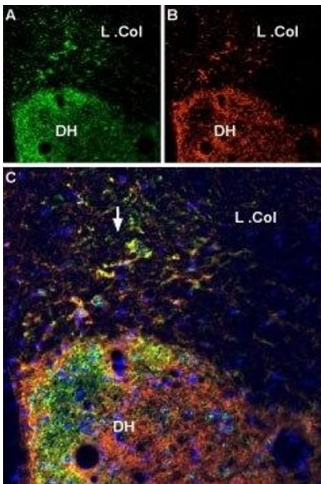
Western Blotting

Image 1. Western blot analysis of rat brain membranes (lanes 1 and 4), mouse brain membranes (lanes 2 and 5) and human SH-SY5Y neuroblastoma cell lysate (lanes 3 and 6): - 1-3. Anti-VGLUT2 Antibody (ABIN7043681, ABIN7044370 and ABIN7044371), (1:400). 4-6. Anti-VGLUT2 Antibody, preincubated with VGLUT2 Blocking Peptide (#BLP-GC036).



Immunohistochemistry

Image 2. Expression of VGLUT2 in rat neocortex - Immunohistochemical staining of rat frozen brain sections using Anti-VGLUT2 Antibody (ABIN7043681, ABIN7044370 and ABIN7044371), (1:400). VGLUT2 (red) is detected in pyramidal neurons (arrow). The same section was stained with DAPI (blue).



Immunohistochemistry

Image 3. Multiplex staining of VGLUT2 and P2X7 Receptor in rat spinal cord - Immunohistochemical staining of perfusion-fixed frozen rat spinal cord sections using Anti-VGLUT2 Antibody (ABIN7043681, ABIN7044370 and ABIN7044371), (1:600) and Anti-P2X7 Receptor-ATTO Fluor-550 Antibody (ABIN7043577), (1:100). A. Vesicular glutamate transporter 2 labeling followed by goat-anti-rabbit-Alexa-488 (green). B. The same section labeled for P2X7 receptor (orange). C. Merge of A and B demonstrates partial co-localization of VGLUT2 and P2X7 receptor in dorsal horn and in lateral column (L. Col., arrow). Cell nuclei were stained with DAPI (blue).