antibodies

# Datasheet for ABIN2483730 anti-SLC17A7 antibody (AA 493-560) (PerCP)

3 Images



### Overview

Quantity:	100 µg
Target:	SLC17A7
Binding Specificity:	AA 493-560
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SLC17A7 antibody is conjugated to PerCP
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

### Product Details

Immunogen:	Fusion protein amino acids 493-560 (cytoplasmic C-terminus) of rat VGlut1
Clone:	S28-9
lsotype:	lgG1
Specificity:	Detects ~52 kDa. No cross-reactivity against VGlut2.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

### Target Details

Target:	SLC17A7
Alternative Name:	VGLUT1 (SLC17A7 Products)

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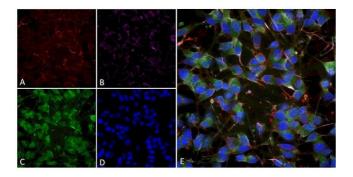
## Target Details

Background:	VGLUT1 is expressed in a subset of glutamate neurons and transports glutamate into native
	synaptic vesicles from the brain, exhibiting a conductance for chloride that is blocked by
	glutamate (1). Vesicular glutamate transport has a substantially lower apparent affinity than the
	plasma membrane excitatory amino acid transporters. Glutamate transport by VGLUT1 is
	saturated with a K(m) of approximately 2 mM, in the same range as transport by synaptic
	vesicles. Finally, plasma membrane glutamate transporters recognize both aspartate and
	glutamate as substrates, whereas VGLUT1 does not recognize aspartate (2).
Gene ID:	116638
NCBI Accession:	NP_446311
UniProt:	Q62634

## Application Details

Application Notes:	<ul><li>WB (1:1000)</li><li>optimal dilutions for assays should be determined by the user.</li></ul>
Comment:	1 μg/ml of ABIN2483730 was sufficient for detection of VGLut1 in 20 μg of rat brain lysate by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
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:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

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#### Immunocytochemistry

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VGLUT1 Monoclonal Antibody, Clone S28-9 (ABIN2483730). Tissue: Differentiated SH-SY5Y. Species: Human. Primary Antibody: Mouse Anti-VGLUT1 Monoclonal Antibody (ABIN2483730) at 1:100. Secondary Antibody: AlexaFluor 488. Counterstain: phalloidin (Alexa 647, red), beta tubulin (Anti-beta III Tubulin Ab, Alexa 555, magenta) Hoechst (blue). (A) Phalloidin (B) Anti-beta III Tubulin Ab. (C) VGLUT1 Antibody. (D) Hoechst (E) Composite.

#### Western Blotting

**Image 2.** Western Blot analysis of Rat brain membrane lysate showing detection of VGLUT1 protein using Mouse Anti-VGLUT1 Monoclonal Antibody, Clone S28-9 . Primary Antibody: Mouse Anti-VGLUT1 Monoclonal Antibody at 1:1000.

### Immunocytochemistry

**Image 3.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VGLUT1 Monoclonal Antibody, Clone S28-9 (ABIN2483730). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-VGLUT1 Monoclonal Antibody (ABIN2483730) at 1:100 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) VGLUT1 Antibody (D) Composite.

