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Datasheet for ABIN1027713

anti-SLC17A8 antibody (AA 546-588)

2 Images

Overview

Quantity:	100 µg
Target:	SLC17A8
Binding Specificity:	AA 546-588
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Fusion protein amino acids 546-588 (cytoplasmic C-terminus) of rat VGLUT3
Clone:	S34-34
Isotype:	IgG1
Specificity:	Detects ~65 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	SLC17A8
Alternative Name:	VGLUT3 (SLC17A8 Products)

Target Details

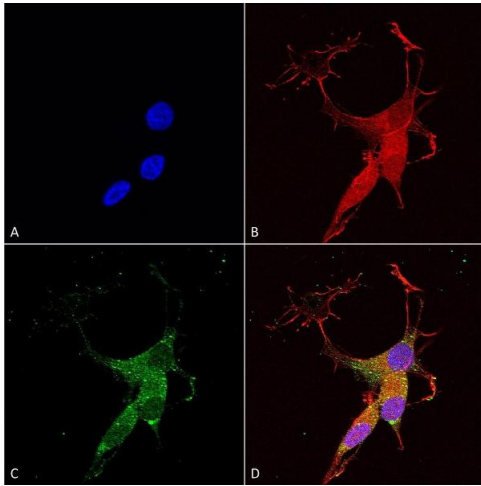
Background:	Vesicular Glutamate Transporter 3 (VGLUT3) is a multipass membrane protein restricted to synaptic vesicles of glutamergic neurons. It is specifically expressed in amygdala, cerebellum, hippocampus, medulla, spinal cord, and thalamus. Human VGLUT3 shares a 72 % sequence homology with VLGUT2 and BNPI.
Gene ID:	266767
NCBI Accession:	NP_714947
UniProt:	Q7TSF2
Pathways:	Sensory Perception of Sound , Dicarboxylic Acid Transport

Application Details

Application Notes:	<ul style="list-style-type: none">• WB (1:1000)• ICC/IF (1:100)• optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN1027713 was sufficient for detection of VGLUT3 in 20 µg of CV-1 fibroblast cells (lysate) transfected with VGLUT3 by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

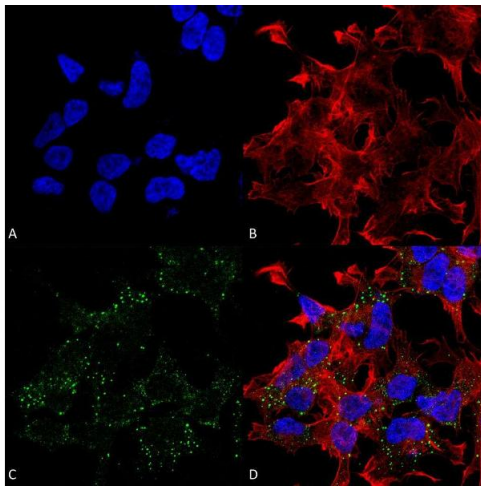
Handling

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:	-20 °C
Storage Comment:	-20°C



Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VGLUT3 Monoclonal Antibody, Clone S34-34 (ABIN1027713). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-VGLUT3 Monoclonal Antibody (ABIN1027713) at 1:50 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) VGLUT3 Antibody (D) Composite.



Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VGlut3 Monoclonal Antibody, Clone S34-34 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-VGlut3 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasmic Vesicle, Secretory Vesicle, Synaptic Vesicle Membrane, Membrane, Cell Junction, Synapse. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) VGlut3 Antibody (D) Composite.