Datasheet for ABIN1027709

anti-SLC18A3 antibody (AA 521-532)

3 Images

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Overview

Quantity:	100 µg
Target:	SLC18A3
Binding Specificity:	AA 521-532
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SLC18A3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Synthetic peptide amino acids 521-532 of human VAChT
Clone:	S6-38
Isotype:	IgG1
Specificity:	Detects ~56 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	SLC18A3

Target Details

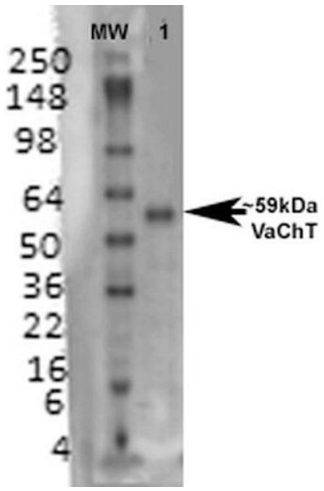
Alternative Name:	VAChT (SLC18A3 Products)
Background:	VAChT is a member of the vesicular amine transporter (VMAT) family. The encoded transmembrane protein transports acetylcholine into secretory vesicle for release into the extracellular space. Acetylcholine (Ach) transport utilizes a proton gradient established by a vacuolar ATPase. This gene is located within the first intron of the choline acetyltransferase gene.
Gene ID:	6572
NCBI Accession:	NP_003046
UniProt:	Q16572

Application Details

Application Notes:	• WB (1:1000) • IHC (1:200) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	A dilution of 1:50-1:200 of SMC-341 was sufficient for detection of VAChT Transporter in rat brain using immunohistochemistry analysis and goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

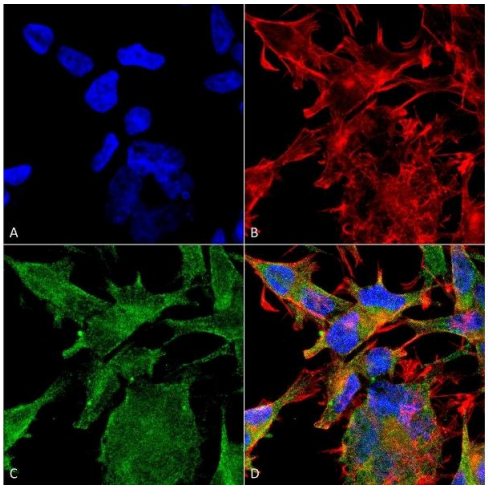
Handling

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



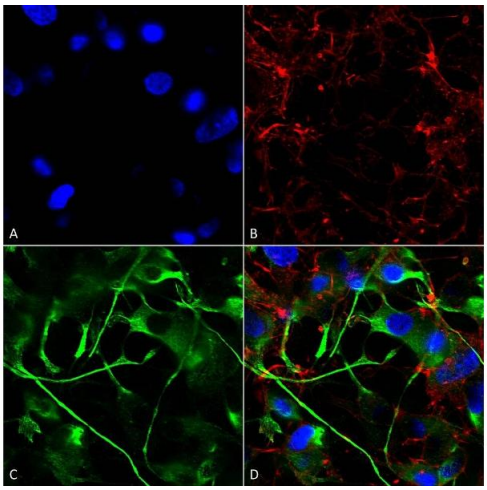
Western Blotting

Image 1. Western Blot analysis of Rat brain membrane lysate showing detection of VAChT protein using Mouse Anti-VAChT Monoclonal Antibody, Clone S6-38 (ABIN1027709). Primary Antibody: Mouse Anti-VAChT Monoclonal Antibody (ABIN1027709) at 1:1000.



Immunocytochemistry

Image 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VAChT Monoclonal Antibody, Clone S6-38 (ABIN1027709). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4 % Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-VAChT Monoclonal Antibody (ABIN1027709) 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: Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) VAChT Antibody. (D) Composite.



Immunocytochemistry

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VAChT Monoclonal Antibody, Clone S6-38 (ABIN1027709). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-VAChT Monoclonal Antibody (ABIN1027709) at 1:200 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) VAChT Antibody (D) Composite.