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VAChT Antibody
VAChT Antibody, Clone S6-38
Catalog # ASM10227

Specification

VAChT Antibody - Product Information

Application	**WB, IHC, ICC**
Primary Accession	Q16572
Other Accession	NP_003046.2
Host	**Mouse**
Isotype	**IgG1**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**

Description
Mouse Anti-Human VAChT Monoclonal IgG1

Target/Specificity
Detects ~56kDa.

Other Names
Vesicular Acetylcholine Transporter Antibody, MGC12716 Antibody, rVAT Antibody, Slc18a3 Antibody, Solute carrier family 18 (vesicular acetylcholine) member 3 Antibody, Solute carrier family 18 (vesicular monoamine) member 3 Antibody, Solute carrier family 18 member 3 Antibody

Immunogen
Synthetic peptide amino acids 521-532 of human VAChT

Purification
Protein G Purified

Storage	**-20ºC**

Storage Buffer
PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
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.

Cellular Localization
Membrane

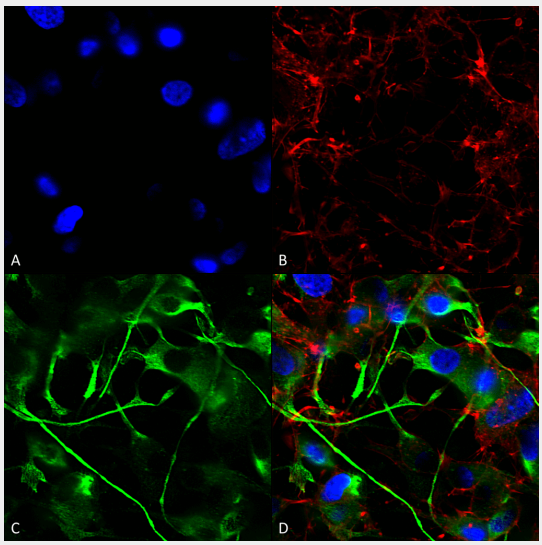
VAChT Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

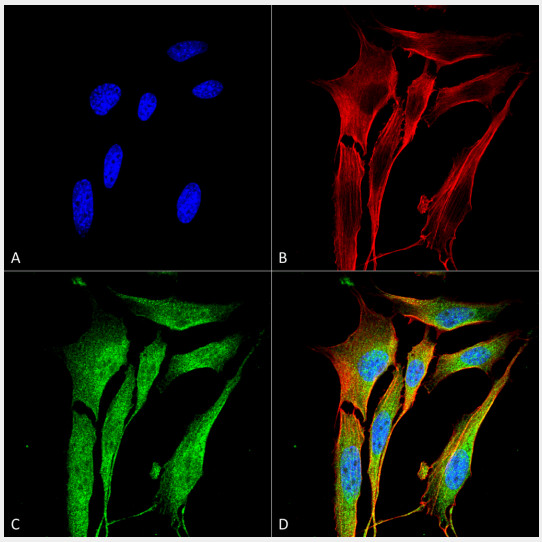
- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

VAChT Antibody - Images

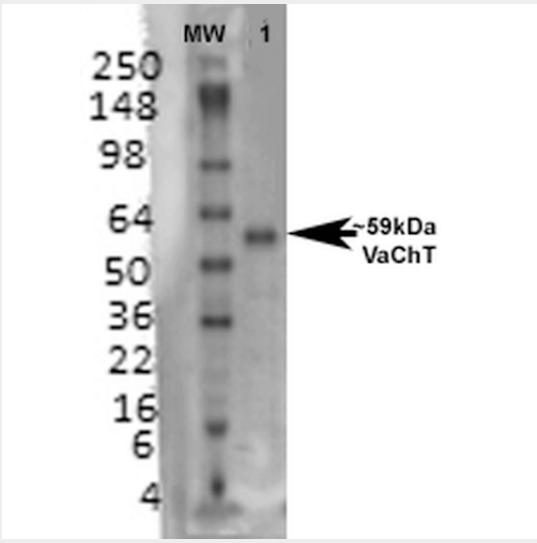


Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VAChT Monoclonal Antibody, Clone N6/38 (ASM10227). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-VAChT Monoclonal Antibody (ASM10227) at 1:200 for overnight at 4°C with 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, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) VAChT Antibody (D) Composite.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VAChT Monoclonal Antibody, Clone N6/38 (ASM10227). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-VAChT Monoclonal Antibody (ASM10227) 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.



Western Blot analysis of Rat brain membrane lysate showing detection of VAChT protein using Mouse Anti-VAChT Monoclonal Antibody, Clone N6/38 (ASM10227). Primary Antibody: Mouse Anti-VAChT Monoclonal Antibody (ASM10227) at 1:1000.

VAChT Antibody - 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.

VAChT Antibody - References

1. Erickson J.D., Varoqui H. (2000) FASEB J. 14(15): 2450-2458.
2. Weihe E., Tao-Cheng J.H., Schafer M.K., Erickson J.D., Eiden L.E. (1996) Proc Natl Acad Sci USA. 93(8): 3547-3552.