

**VACHT Antibody**  
**VACHT Antibody, Clone S6-38**  
**Catalog # ASM10227****Specification**

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**VACHT Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q16572</a>
Other Accession	<a href="#">NP_003046.2</a>
Host	<b>Mouse</b>
Isotype	<b>IgG1</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

**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 **-20°C****Storage Buffer**

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

Shipping Temperature

**Blue Ice or 4°C****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

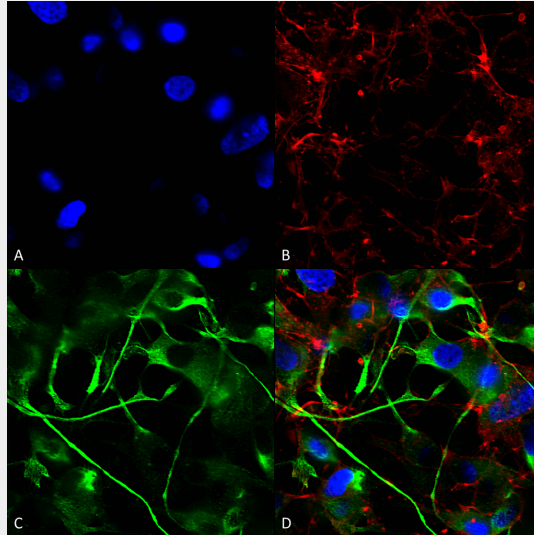
**VACHT Antibody - Protocols**

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

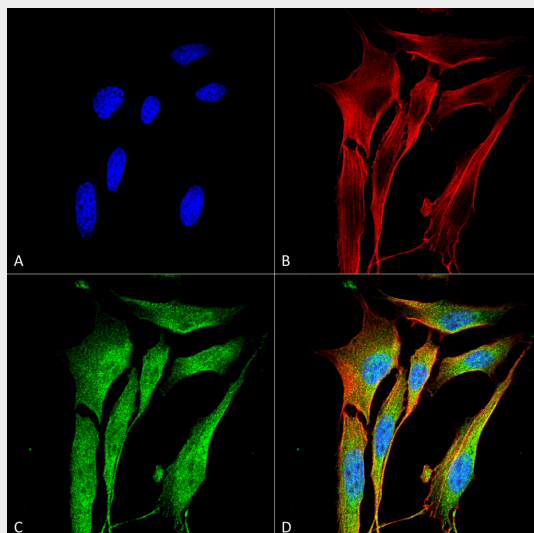
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**VACHT Antibody - Images**

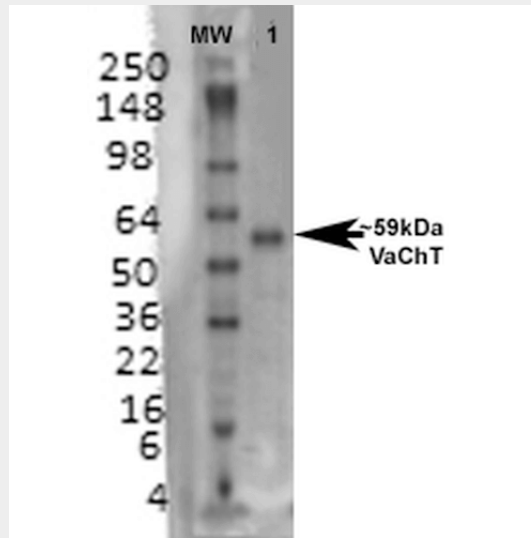


Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VACHT Monoclonal Antibody, Clone N6/38 (ASM10227). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-VACHT Monoclonal Antibody (ASM10227) at 1:200 for overnight at 4°C with 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.