

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

**Specification**

**VACHT Antibody - Product Information**

Application **ICC/IF, WB**  
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 **-20°C**

**Storage Buffer**

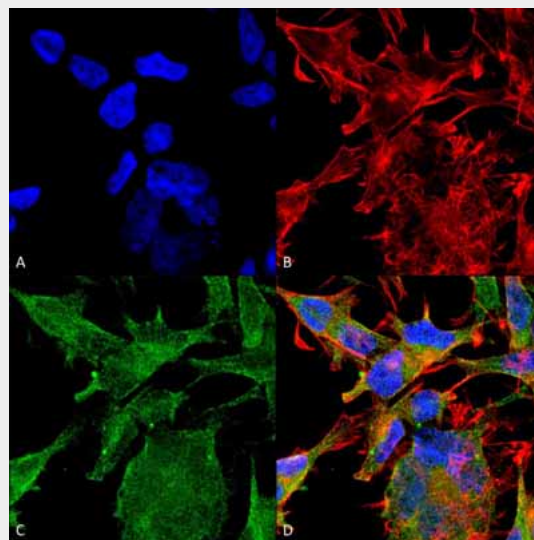
PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping **Blue Ice or 4°C**  
Temperature

**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**



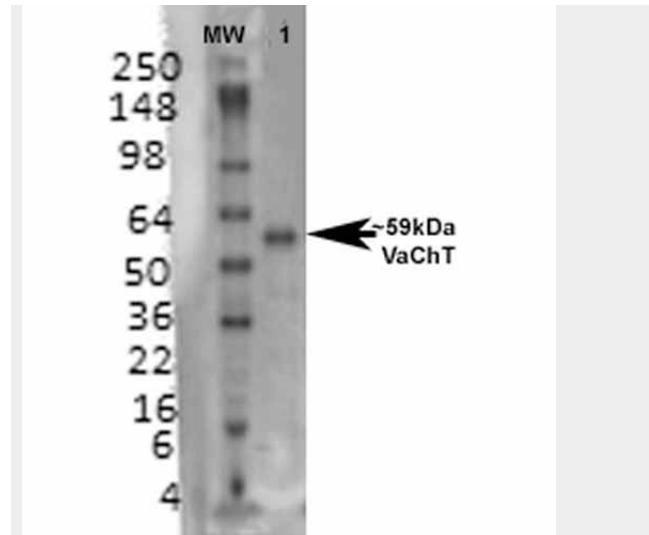
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VACHT Monoclonal Antibody, Clone S6-38 (ASM10227). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-VACHT Monoclonal Antibody (ASM10227) at 1:100 for 60 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.

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](#)



Western Blot analysis of Rat brain membrane lysate showing detection of VACHT protein using Mouse Anti-VACHT Monoclonal Antibody, Clone S6-38 (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.