

VGlut3 Antibody
VGLUT3 Antibody, Clone S34-34
Catalog # ASM10231

Specification

VGlut3 Antibody - Product Information

Application **ICC/IF**
Primary Accession [Q7TSF2](#)
Other Accession [NP_714947.1](#)
Host **Mouse**
Isotype **IgG1**
Reactivity **Human, Mouse, Rat**
Clonality **Monoclonal**

Description

Mouse Anti-Rat VGlut3 Monoclonal IgG1

Target/Specificity

Detects ~65kDa.

Other Names

DFNA25 Antibody, Vesicular glutamate transporter 3 Antibody, deafness autosomal dominant 25 Antibody, SLC17A8 Antibody, Solute carrier family 17 member 8 Antibody, VGLUT 3 Antibody, Solute carrier family 17 (sodium dependent inorganic phosphate cotransporter) member 8 Antibody

Immunogen

Fusion protein amino acids 546-588 (cytoplasmic C-terminus) of rat VGlut3

Purification

Protein G Purified

Storage **-20°C**

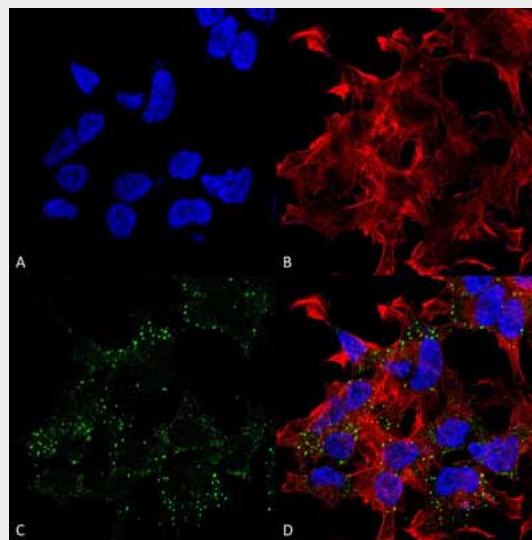
Storage Buffer

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

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

Certificate of Analysis

1 µg/ml of SMC-397 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.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VGlut3 Monoclonal Antibody, Clone S34-34 (ASM10231). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-VGlut3 Monoclonal Antibody (ASM10231) 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.

VGlut3 Antibody - 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

Cellular Localization

Cytoplasmic Vesicle | Secretory Vesicle |
Synaptic Vesicle Membrane | Membrane |
Cell Junction | Synapse

72% sequence homology with VLGUT2 and
BNPI.

VGlut3 Antibody - References

1. Amilhon B., et al. (2010) J Neurosci. 30(6): 2198-2210.
2. Herzog E., et al. (2004) Neurosci. 123(4): 983-1002.

VGlut3 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](#)