Revision 1

#13151 Store at -20C

VAMP1 Antibody

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	16	Rabbit	#P23763	6843

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

VAMP1 Antibody recognizes endogenous levels of total VAMP1 protein. This antibody does not cross-react with VAMP2.

Species predicted to react based on 100% sequence homology:

Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human VAMP1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Vesicle-associated membrane protein 1 (VAMP1), also called synaptobrevin 1, is part of the R-soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) complex (1). The SNARE complex is involved in calcium regulated vesicular transport and membrane fusion (2). While related protein VAMP2 exhibits a wider distribution and is more abundant in the brain, VAMP1 is the main isoform in specific brain regions including the subthalamus nucleus zona incerta (1), the ostral periolivary region, and the retina (3). In addition, VAMP1 is involved in neurotransmitter release at the neuromuscular junction (4) and in the release of bioactive peptides from cardiac myocytes (5).

Background References

1. Raptis, A. et al. (2005) *J Chem Neuroanat* 30, 201-11.
2. Sudhof, T.C. (2004) *Annu Rev Neurosci* 27, 509-47.
3. Nystuen, A.M. et al. (2007) *Neurogenetics* 8, 1-10.
4. Liu, Y. et al. (2011) *J Physiol* 589, 1603-18.
5. Ferlito, M. et al. (2010) *J Mol Cell Cardiol* 49, 791-800.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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