

#13640 Store at -20°C

VAMP3 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	13	Rabbit	#Q15836	9341

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	VAMP3 recognizes endogenous levels of total VAMP3 protein. This antibody does not cross-react with VAMP1 or VAMP2 proteins.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human VAMP3 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Proteins in the soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) complex are integral membrane proteins involved in vesicle transport and membrane fusion by pairing of vesicular SNAREs (v-SNAREs) with cognate target SNAREs (t-SNAREs) (reviewed in 1,2). Vesicle associated membrane protein 3 (VAMP3), also known as cellubrevin, has a broad tissue distribution and localizes to endosomal compartments (3). VAMP3 interacts with the t-SNAREs syntaxin1, syntaxin4, SNAP23, and SNAP25 (4,5). Research studies indicate that VAMP3 is involved in transferrin receptor recycling to the plasma membrane (6) and in T-cell receptor recycling to immunological synapses (7). Inhibition of VAMP3 with tetanus toxin impairs membrane trafficking during cell migration (8).	
Background References	<ol style="list-style-type: none"> 1. Jena, B.P. (2011) <i>Adv Exp Med Biol</i> 713, 13-32. 2. Kasai, H. et al. (2012) <i>Physiol Rev</i> 92, 1915-64. 3. McMahon, H.T. et al. (1993) <i>Nature</i> 364, 346-9. 4. Chilcote, T.J. et al. (1995) <i>J Cell Biol</i> 129, 219-31. 5. Schraw, T.D. et al. (2003) <i>Biochem J</i> 374, 207-17. 6. Galli, T. et al. (1994) <i>J Cell Biol</i> 125, 1015-24. 7. Das, V. et al. (2004) <i>Immunity</i> 20, 577-88. 8. Tayeb, M.A. et al. (2005) <i>Exp Cell Res</i> 305, 63-73. 	

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 nonfat dry milk, 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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