VAMP2 (D6O1A) Rabbit mAb				3 Trask L	Orders: Support: Web:	BI Signaling C H N O L O G Y* 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com	
Applications: WB, IP, IHC-P, IF-F, IF- IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 13	Source/Isotype: Rabbit	UniProt ID: #P63027	Entrez-Gene Id: 6844	
Product Usage Information	Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry)			nistry)	Dilution 1:1000 1:50 1:1600 - 1:6400 1:2000 1:250		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #50423.					cerol and less than	
Specificity / Sensi	tivity VAM	VAMP2 (D601A) Rabbit mAb recognizes endogenous levels of total VAMP2 protein. This antibody does not cross-react with VAMP1 protein and recognizes VAMP2 protein by IF-IC analysis in mouse and rat cells.					

- **Source / Purification** Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human VAMP2 protein.
- **Background** Vesicle-associated membrane protein 2 (VAMP2, also called synaptobrevin) is part of the R-soluble Nethylmaleimide-sensitive factor attachment protein receptor (SNARE) complex (1). The SNARE complex is involved in vesicular transport and membrane fusion, a process regulated by calcium (2). In neurons, VAMP2 is predominantly inserted in presynaptic vesicle membranes. Assembly of VAMP2 with the plasma membrane SNAREs syntaxin 1 and SNAP25 is a key event necessary for membrane fusion and neurotransmitter release (2). In addition to this important function, VAMP2 is also involved in granule exocytosis in neutrophils (3) and release of bioactive peptides from cardiac myocytes (4) and juxtaglomerular cells (5).

 Background References
 1. Baumert, M. et al. (1989) EMBO J 8, 379-84.

 2. Sudhof, T.C. (2004) Annu Rev Neurosci 27, 509-47.
 3. Mollinedo, F. et al. (2003) J Immunol 170, 1034-42.

 4. Ferlito, M. et al. (2010) J Mol Cell Cardiol 49, 791-800.
 5. Mendez, M. et al. (2011) J Biol Chem 286, 28608-18.

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 IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)
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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