

## 508

## VAMP2 (D6O1A) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> W, IP, IHC-P, IF-F, IF- IC	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 13	Source/Isotype: Rabbit	UniProt ID: #P63027	Entrez-Gene Id: 6844
Product Usage		Application		Dilution		
Information		Western Blotting			1:1000	
		Immunoprecipitation			1:50	
		Immunohistochemist			1:1600	) - 1:6400
		Immunofluorescence (Frozen)			1:2000	
		Immunofluorescence	` ,	istry)	1:250	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/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.				
Specificity/Sensitivity		VAMP2 (D6O1A) 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 N-ethylmaleimide-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		<ol> <li>Baumert, M. et al. (1989) EMBO J 8, 379-84.</li> <li>Sudhof, T.C. (2004) Annu Rev Neurosci 27, 509-47.</li> <li>Mollinedo, F. et al. (2003) J Immunol 170, 1034-42.</li> <li>Ferlito, M. et al. (2010) J Mol Cell Cardiol 49, 791-800.</li> <li>Mendez, M. et al. (2011) J Biol Chem 286, 28608-18.</li> </ol>				
Species Reactivi	ty	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat				

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** 

**W:** 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

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