## **Munc18-1 Antibody**



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Applications: W	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 70	Source/Isotype: Rabbit	UniProt ID: #P61764	Entrez-Gene Id: 6812
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Munc18-1 Antibody recognizes endogenous levels of total Munc18-1 protein.				
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 Asp453 of human Munc18-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Munc18-1 belongs to the Munc18 protein family that also includes Munc18-2 and Munc18-3. These proteins are highly conserved at the amino acid sequence level and play a critical role in membrane fusion. Munc18 proteins control SNARE complex formation (1,2) and interact with syntaxin (3). In Munc18-1 knockout mice, neurotransmitter release is completely abolished (4). In addition, Munc18-1 acts as a molecular chaperone for syntaxin-1, allowing for formation of the SNARE complex at the plasma membrane (5). Munc18-1 also acts as a regulator of vesicle docking during exocytosis (6).				
Background References		<ol> <li>Rizo, J. and Südhof, T.C. (2002) Nat Rev Neurosci 3, 641-53.</li> <li>Südhof, T.C. and Rothman, J.E. (2009) Science 323, 474-7.</li> <li>Han, G.A. et al. (2010) J Neurochem 115, 1-10.</li> <li>Verhage, M. et al. (2000) Science 287, 864-9.</li> <li>Medine, C.N. et al. (2007) J Cell Sci 120, 4407-15.</li> <li>Voets, T. et al. (2001) Neuron 31, 581-91.</li> </ol>				
Species Reactiv	/ity	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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				

Applications Key

W: Western Blotting

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat

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