

Store at
-20C
#13302

Complexin-1/2 Antibody



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 14-16	Source/Isotype: Rabbit	UniProt ID: #Q6PUV4, #O14810	Entrez-Gene Id: 10814, 10815
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 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	Complexin-1/2 Antibody recognizes endogenous levels of total complexin-1 and complexin-2 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 the carboxy terminus of human complexin-2 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Complexins are small soluble proteins composed of a central α -helical-structured domain surrounded by amino- and carboxy-terminal unstructured domains (1). These cytosolic proteins bind to t-SNAREs with low affinity and to assembled SNARE complexes with high affinity (1,2). Two isoforms, complexin-1 and complexin-2, are expressed in neuronal cells (3) where they regulate evoked and spontaneous exocytosis (4,5). Altered complexin expression resulting from RNAi-mediated knockdown (6) or gene invalidation (7) leads to alteration in spontaneous fusion events and neurotransmitter release, which reflects functions at both inhibitory and stimulatory synapses.	
Background References	<ol style="list-style-type: none"> 1. Chen, X. et al. (2002) <i>Neuron</i> 33, 397-409. 2. McMahon, H.T. et al. (1995) <i>Cell</i> 83, 111-9. 3. Reim, K. et al. (2005) <i>J Cell Biol</i> 169, 669-80. 4. Reim, K. et al. (2001) <i>Cell</i> 104, 71-81. 5. Huntwork, S. and Littleton, J.T. (2007) <i>Nat Neurosci</i> 10, 1235-7. 6. Maximov, A. et al. (2009) <i>Science</i> 323, 516-21. 7. Xue, M. et al. (2008) <i>Proc Natl Acad Sci U S A</i> 105, 7875-80. 	
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	W: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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