

Complexin-1 Antibody



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 14	Source/Isotype: Rabbit	UniProt ID: #O14810	Entrez-Gene Id: 10815
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

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 Antibody recognizes endogenous levels of total complexin-1 protein. This antibody does not cross-react with complexin-2.

Species predicted to react based on 100% sequence homology

Monkey

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala82 of human complexin-1 protein.

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

1. Chen, X. et al. (2002) *Neuron* 33, 397-409.
2. McMahon, H.T. et al. (1995) *Cell* 83, 111-9.
3. Reim, K. et al. (2005) *J Cell Biol* 169, 669-80.
4. Reim, K. et al. (2001) *Cell* 104, 71-81.
5. Huntwork, S. and Littleton, J.T. (2007) *Nat Neurosci* 10, 1235-7.
6. Maximov, A. et al. (2009) *Science* 323, 516-21.
7. Xue, M. et al. (2008) *Proc Natl Acad Sci U S A* 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 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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