

#28070 Store at -20°C

Complexin-1/2 (D8A6E) Rabbit mAb



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Orders: 877-616-CELL (2355)
orders@cellsignal.com

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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H M R	Endogenous	14-16	Rabbit IgG	#Q6PUV4	10814

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:800

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.

Specificity / Sensitivity

Complexin-1/2 (D8A6E) Rabbit mAb recognizes endogenous levels of total complexin-1 and complexin-2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro125 of human complexin-2 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

WB: Western Blotting **IP:** Immunoprecipitation **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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