

118572

Syntaxin 1A (D4E2W) 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

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| Applications: | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 33 | Source/Isotype: Rabbit IgG | UniProt ID: #Q16623 | Entrez-Gene Id: 6804 |
|-------------------------------|----------------------|---|--|---|--|--|
| 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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. | | | | |
| Specificity/Sensitivity | | Syntaxin 1A (D4E2W) Rabbit mAb recognizes endogenous levels of total Syntaxin 1A protein. | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val237 of human Syntaxin 1A protein. | | | | |
| Background | | Syntaxin 1A (STX1A) is a SNARE protein involved in intracellular membrane fusion, including synaptic vesicle fusion (1). At the synapse, syntaxin 1 is located at the presynaptic plasma membrane and is therefore categorized as a t-SNARE protein (2). The amino-terminal domain of syntaxin 1 interacts with Munc18-1 and this interaction is essential for synaptic vesicle fusion (3). Although originally characterized from neural tissues, research studies have demonstrated syntaxin 1A expression in exocrine tissues such as pancreatic islets (4) where it negatively regulates insulin release (5). | | | | |
| Background References | | Südhof, T.C. and Rothman, J.E. (2009) Science 323, 474-7. Fukuda, R. et al. (2000) Nature 407, 198-202. Zhou, P. et al. (2013) EMBO J 32, 159-71. Jacobsson, G. et al. (1994) Proc Natl Acad Sci U S A 91, 12487-91. Nagamatsu, S. et al. (1996) J Biol Chem 271, 1160-5. | | | | |
| 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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