

Syntaxin 1A Antibody



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| Applications: W | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 32 | Source/Isotype: Rabbit | UniProt ID: #Q16623 | Entrez-Gene Id: 6804 |
|--|----------------------|---|------------------------|---------------------------|------------------------|-------------------------|
| Product Usage Information | e | Application Western Blotting | | | Dilution 1:1000 | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | |
| Specificity/Sensitivity | | Syntaxin 1A Antibody recognizes endogenous levels of total syntaxin 1A protein. The antibody may cross-react with syntaxin 1B. | | | | |
| 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 surrounding Val237 of human syntaxin 1A protein. Antibodies are purified by protein A and peptide affinity chromatography. | | | | |
| 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 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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