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Syntaxin 1A Antibody
Mouse monoclonal antibody
Catalog # AN1196

Specification

Syntaxin 1A Antibody - Product Information

Application	**WB**
Primary Accession	Q16623
Reactivity	**Human, Hamster, Pig, Rat**
Host	**Mouse**
Clonality	**monoclonal**
Isotype	**IgG1**
Calculated MW	**36 KDa**

Syntaxin 1A Antibody - Additional Information

Gene ID	**6804**
Gene Name	**STX1A**

Other Names
Syntaxin-1A, Neuron-specific antigen HPC-1, STX1A, STX1

Target/Specificity
Synaptic immunoprecipitate (crude) from human brain.

Dilution
WB~~ 1:1000

Format
Protein G purified culture supernatant.

Antibody Specificity
The antibody is specific for the ~ 36 kDa syntaxin protein in Westernblots of rat brain lysate. The antibody has also been used for immunohistochemistry on formalinfixed, vibratome sections. Does not work on paraffin sections.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Syntaxin 1A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

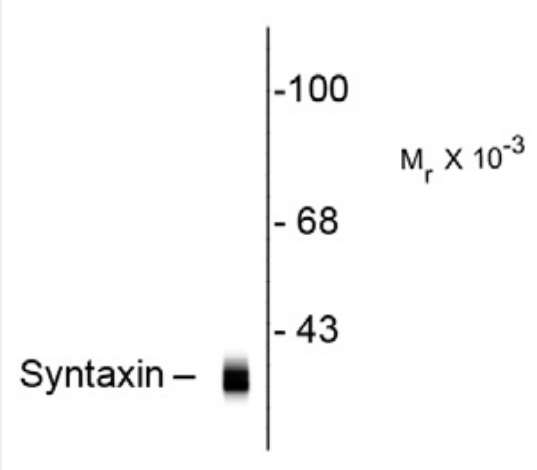
Shipping
Blue Ice

Syntaxin 1A Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Syntaxin 1A Antibody - Images



Western blot of rat cortex lysate showing specific immunolabelingof the ~ 36k syntaxin 1A protein.

Syntaxin 1A Antibody - Background

Syntaxins are a family of proteins involved in the docking of synaptic vesicles with the plasma membrane. Syntaxin, along with synaptobrevin and SNAP-25, forms the SNARE complex which mediates synaptic vesicle fusion and exocytosis. Binding of Munc18-1 to the N-terminus of syntaxin 1 has been demonstrated to be essential for exocytic membrane fusion (Khvotchev et al., 2007). Decreased levels of phosphorylated syntaxin 1 in the prefrontal cortex have recently been correlated with schizophrenia (Castillo et al., 2010).

Syntaxin 1A Antibody - References

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