

Syntaxin 1A Antibody
Mouse monoclonal antibody
Catalog # AN1196

Specification

Syntaxin 1A Antibody - Product Information

| | |
|-------------------|--------------------------|
| Application | WB |
| Primary Accession | O16623 |
| 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 formalinfixxed, 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

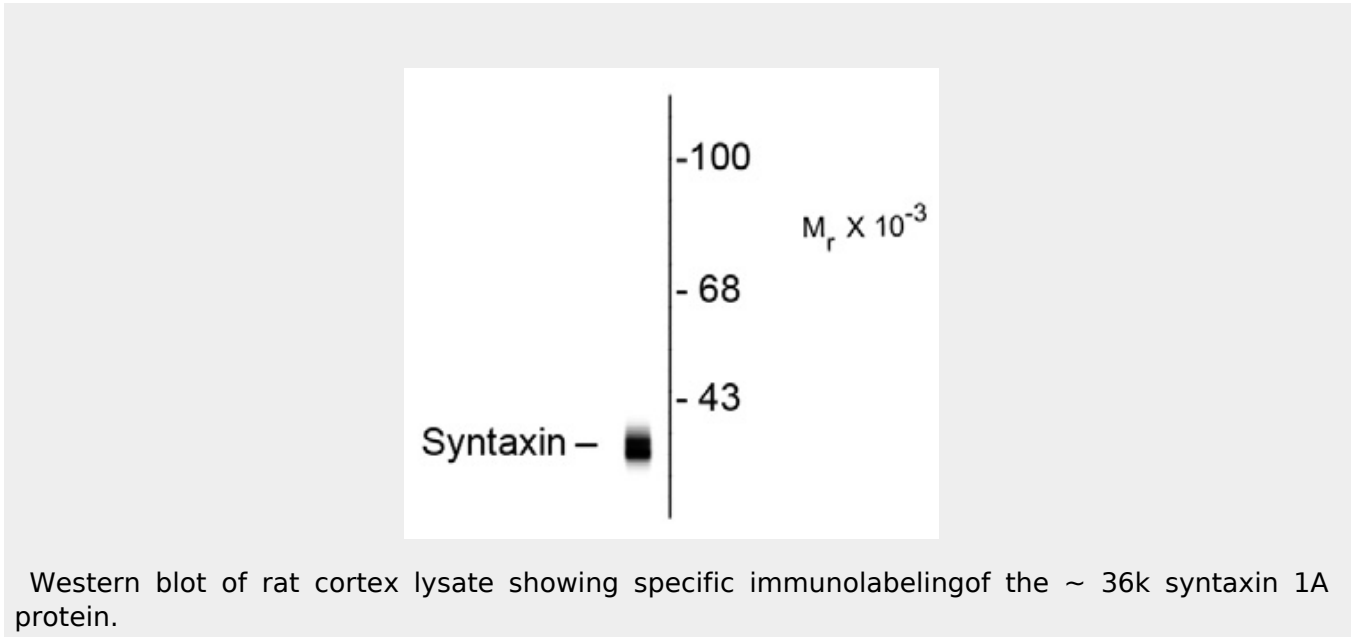
Blue Ice

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 Cytometry](#)
- [Cell Culture](#)

Syntaxin 1A Antibody - Images



Western blot of rat cortex lysate showing specific immunolabeling of 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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