

STXBP1 / MUNC18-1 Antibody (aa279-328)
Rabbit Polyclonal Antibody
Catalog # ALS14186**Specification**

STXBP1 / MUNC18-1 Antibody (aa279-328) - Product Information

Application	IF, IHC
Primary Accession	P61764
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68kDa KDa

STXBP1 / MUNC18-1 Antibody (aa279-328) - Additional Information**Gene ID** 6812**Other Names**

Syntaxin-binding protein 1, MUNC18-1, N-Sec1, Protein unc-18 homolog 1, Unc18-1, Protein unc-18 homolog A, Unc-18A, p67, STXBP1, UNC18A

Target/Specificity

MUNC-18a Antibody detects endogenous levels of total MUNC-18a protein.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

STXBP1 / MUNC18-1 Antibody (aa279-328) is for research use only and not for use in diagnostic or therapeutic procedures.

STXBP1 / MUNC18-1 Antibody (aa279-328) - Protein Information**Name** STXBP1**Synonyms** UNC18A**Function**

Participates in the regulation of synaptic vesicle docking and fusion through interaction with GTP-binding proteins (By similarity). Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. Involved in the release of neurotransmitters from neurons through interacting with SNARE complex component STX1A and mediating the assembly of the SNARE complex at synaptic membranes (By similarity). May play a role in determining the specificity of intracellular fusion reactions.

Cellular Location

Cytoplasm, cytosol. Membrane; Peripheral membrane protein

Tissue Location

Brain and spinal cord. Highly enriched in axons.

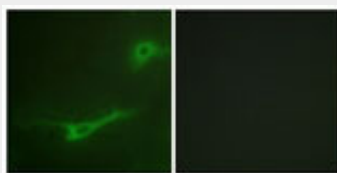
Volume

50 µl

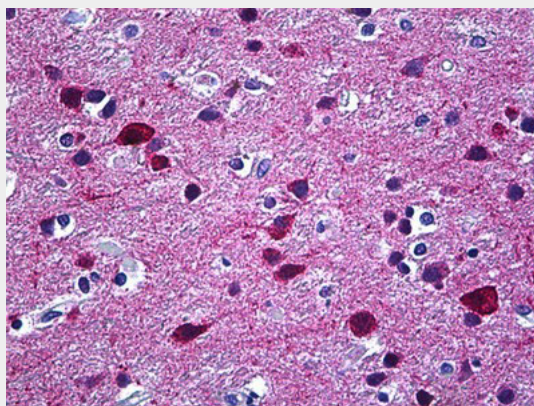
STXBP1 / MUNC18-1 Antibody (aa279-328) - Protocols

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](#)

STXBP1 / MUNC18-1 Antibody (aa279-328) - Images

Immunofluorescence of NIH-3T3 cells, using MUNC-18a Antibody.



Anti-STXBP1 antibody IHC of human brain, cortex.

STXBP1 / MUNC18-1 Antibody (aa279-328) - Background

May participate in the regulation of synaptic vesicle docking and fusion, possibly through interaction with GTP-binding proteins. Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. May play a role in determining the specificity of intracellular fusion reactions.

STXBP1 / MUNC18-1 Antibody (aa279-328) - References

Gengyo-Ando K.,et al.J. Neurosci. 16:6695-6702(1996).
Swanson D.A.,et al.Genomics 48:373-376(1998).
Humphray S.J.,et al.Nature 429:369-374(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Tian J.H.,et al.J. Biol. Chem. 278:26265-26274(2003).