

**STXBP1 / MUNC18-1 Antibody (clone 6D1)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS14162****Specification**

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**STXBP1 / MUNC18-1 Antibody (clone 6D1) - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">P61764</a>
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	68kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

**STXBP1 / MUNC18-1 Antibody (clone 6D1) - 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**

Human STXBP1

**Reconstitution & Storage**

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

**Precautions**

STXBP1 / MUNC18-1 Antibody (clone 6D1) is for research use only and not for use in diagnostic or therapeutic procedures.

**STXBP1 / MUNC18-1 Antibody (clone 6D1) - 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

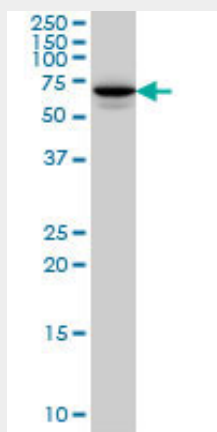
**Tissue Location**

Brain and spinal cord. Highly enriched in axons.

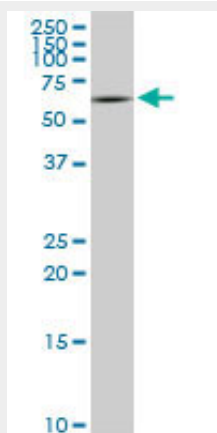
**STXBP1 / MUNC18-1 Antibody (clone 6D1) - Protocols**

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

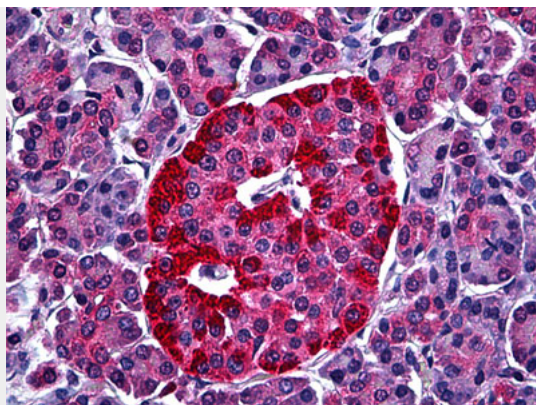
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**STXBP1 / MUNC18-1 Antibody (clone 6D1) - Images**

STXBP1 monoclonal antibody clone 6D1 Western blot of STXBP1 expression in HeLa.



STXBP1 monoclonal antibody clone 6D1. Western blot of STXBP1 expression in NIH/3T3.



Anti-STXBP1 antibody IHC of human pancreas, islets of Langerhans.

#### **STXBP1 / MUNC18-1 Antibody (clone 6D1) - 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 (clone 6D1) - 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).