

# STXBP1 Antibody

Rabbit mAb Catalog # AP92400

### **Product Information**

**Application** WB, IHC, IF, ICC, IHF

Primary Accession P61764

**Reactivity** Rat, Human, Mouse

**Clonality** Monoclonal

Other Names P67; NSEC1; UNC18; RBSEC1; MUNC18-1;

IsotypeRabbit IgGHostRabbitCalculated MW67569

## **Additional Information**

**Dilution** WB 1:1000~1:5000 IHC 1:50~1:200 ICC/IF 1:50~1:200

**Purification** Affinity-chromatography

**Immunogen** A synthesized peptide derived from human STXBP1

**Description**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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

#### **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

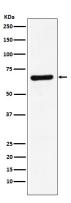
neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. Involved in the release of neurotransmitters from neurons through interacting with SNARE complex component STX1A and mediating 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.

# **Images**



Western blot analysis of STXBP1 expression in HeLa cell lysate.

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