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STXBP1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6623b

Specification

STXBP1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P61764

STXBP1 Antibody (C-term) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP6623b was selected from the C-term region of human STXBP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

STXBP1 Antibody (C-term) Blocking Peptide - 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 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

STXBP1 Antibody (C-term) Blocking Peptide - Images

STXBP1 Antibody (C-term) Blocking Peptide - Background

STXBP1 may participate in the regulation of synaptic vesicle docking and fusion, possibly through interaction with GTP-binding proteins. The protein is essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. It can interact with syntaxins 1, 2, and 3 but not syntaxin 4 and may play a role in determining the specificity of intracellular fusion reactions.

STXBP1 Antibody (C-term) Blocking Peptide - References

Behan,A.T., Mol. Psychiatry 14 (6), 601-613 (2009)Saitsu,H., Nat. Genet. 40 (6), 782-788 (2008)