

STXBP5 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17209c**Specification**

STXBP5 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q5T5C0](#)**STXBP5 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 134957**Other Names**

Syntaxin-binding protein 5, Lethal(2) giant larvae protein homolog 3, Tomosyn-1, STXBP5, LLGL3

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.

STXBP5 Antibody (Center) Blocking Peptide - Protein Information**Name** STXBP5**Synonyms** LLGL3**Function**

Plays a regulatory role in calcium-dependent exocytosis and neurotransmitter release. Inhibits membrane fusion between transport vesicles and the plasma membrane. May modulate the assembly of trans-SNARE complexes between transport vesicles and the plasma membrane. Inhibits translocation of GLUT4 from intracellular vesicles to the plasma membrane. Competes with STXBP1 for STX1 binding (By similarity).

Cellular Location

Cytoplasm. Cell membrane; Peripheral membrane protein. Cytoplasmic vesicle membrane; Peripheral membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle. Synapse. Note=Cytoplasmic, and associated with vesicular membranes and the plasma membrane. Detected at synapses and on synaptic vesicles (By similarity).

STXBP5 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

STXBP5 Antibody (Center) Blocking Peptide - Images

STXBP5 Antibody (Center) Blocking Peptide - Background

Syntaxin 1 is a component of the 7S and 20S SNARE complexes which are involved in docking and fusion of synaptic vesicles with the presynaptic plasma membrane. This gene encodes a syntaxin 1 binding protein. In rat, a similar protein dissociates syntaxin 1 from the Munc18/n-Sec1/rbSec1 complex to form a 10S complex, an intermediate which can be converted to the 7S SNARE complex. Thus this protein is thought to be involved in neurotransmitter release by stimulating SNARE complex formation. Alternatively spliced transcript variants encoding different isoforms have been identified.

STXBP5 Antibody (Center) Blocking Peptide - References

Thye, T., et al. Nat. Genet. 42(9):739-741(2010) Wu, C., et al. Pharmacogenet. Genomics 20(6):389-395(2010) Smith, N.L., et al. Circulation 121(12):1382-1392(2010) Olsen, J.V., et al. Cell 127(3):635-648(2006) Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)