10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

STX17 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP13599a

Specification

STX17 Antibody (N-term) Blocking peptide - Product Information

Primary Accession P56962

STX17 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 55014

Other Names
Syntaxin-17, STX17

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13599a was selected from the N-term region of STX17. 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.

STX17 Antibody (N-term) Blocking peptide - Protein Information

Name STX17 {ECO:0000303|PubMed:21545355, ECO:0000312|HGNC:HGNC:11432}

Function
SNAREs, soluble N-ethylmaleimide-sensitive factor-attachment protein receptors, are essential proteins for fusion of cellular membranes. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four alpha-helical bundle that drives membrane fusion (PubMed:23217709, PubMed:25686604, PubMed:28306502). STX17 is a SNARE of the autophagosome involved in autophagy through the direct control of autophagosome membrane fusion with the lysosome membrane (PubMed:23217709, PubMed:25686604, PubMed:28306502, PubMed:28504273). May also play a role in the early secretory pathway where it may maintain the architecture of the

endoplasmic reticulum-Golgi intermediate compartment/ERGIC and Golgi and/or regulate transport between the endoplasmic reticulum, the ERGIC and the Golgi (PubMed:21545355).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein. Smooth endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9Z158}; Multi-pass membrane protein. Endoplasmic reticulum-Golgi intermediate compartment membrane; Multi-pass membrane protein. Cytoplasmic vesicle, autophagosome membrane; Multi-pass membrane protein. Cytoplasmic vesicle, COPII-coated vesicle membrane {ECO:0000250|UniProtKB:Q9Z158}; Multi-pass membrane protein. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9Z158} Mitochondrion membrane; Multi-pass membrane protein. Note=Has a hairpin-like insertion into membranes Localizes to the completed autophagosome membrane upon cell starvation (PubMed:23217709).

STX17 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

STX17 Antibody (N-term) Blocking peptide - Images

STX17 Antibody (N-term) Blocking peptide - Background

Implicated in vesicle trafficking to lysosomes. STX17 could be involved in processes related to cell division (By similarity).

STX17 Antibody (N-term) Blocking peptide - References

Petukhova, L., et al. Nature 466(7302):113-117(2010)Zhao, Z.Z., et al. Melanoma Res. 19(2):80-86(2009)Steegmaier, M., et al. Mol. Biol. Cell 11(8):2719-2731(2000)Steegmaier, M., et al. J. Biol. Chem. 273(51):34171-34179(1998)