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SEC31A Blocking Peptide (Center)

Synthetic peptide
Catalog # BP20163C

Specification

SEC31A Blocking Peptide (Center) - Product Information

Primary Accession	O94979
Other Accession	NP_055748.2

SEC31A Blocking Peptide (Center) - Additional Information

Gene ID 22872

Other Names
Protein transport protein Sec31A, ABP125, ABP130, SEC31-like protein 1, SEC31-related protein A, Web1-like protein, SEC31A, KIAA0905, SEC31L1

Target/Specificity
The synthetic peptide sequence is selected from aa 488-502 of HUMAN SEC31A

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.

SEC31A Blocking Peptide (Center) - Protein Information

Name SEC31A

Synonyms KIAA0905, SEC31L1

Function
Component of the coat protein complex II

SEC31A Blocking Peptide (Center) - Background

The protein encoded by this gene is similar to yeast Sec31 protein. Yeast Sec31 protein is known to be a component of the COPII protein complex which is responsible for vesicle budding from endoplasmic reticulum (ER). This protein was found to colocalize with SEC13, one of the other components of COPII , in the subcellular structures corresponding to the vesicle transport function. An immunodepletion experiment confirmed that this protein is required for ER-Golgi transport. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq].

SEC31A Blocking Peptide (Center) - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Townley, A.K., et al. J. Cell. Sci. 121 (PT 18), 3025-3034 (2008) :
Stagg, S.M., et al. Cell 134(3):474-484(2008)
Shibata, H., et al. J. Biol. Chem. 283(15):9623-9632(2008)
Bi, X., et al. Dev. Cell 13(5):635-645(2007)

(COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER) (PubMed:10788476). The coat has two main functions, the physical deformation of the endoplasmic reticulum membrane into vesicles and the selection of cargo molecules (By similarity).

Cellular Location
Cytoplasm. Cytoplasmic vesicle, COPII-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Endoplasmic reticulum membrane; Peripheral membrane protein. Cytoplasm, cytosol. Note=Associates with membranes in a GTP- dependent manner (By similarity). Localizes to endoplasmic reticulum exit sites (ERES), also known as transitional endoplasmic reticulum (tER) (PubMed:25201882, PubMed:28442536, PubMed:17428803) {ECO:0000250|UniProtKB:Q9Z2Q1, ECO:0000269|PubMed:17428803, ECO:0000269|PubMed:25201882, ECO:0000269|PubMed:28442536}

Tissue Location
Abundantly and ubiquitously expressed.

SEC31A Blocking Peptide (Center) - Protocols

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

- Blocking Peptides