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SEC63 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP13128a

Specification

SEC63 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9UGP8

SEC63 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 11231

Other Names
Translocation protein SEC63 homolog, SEC63, SEC63L

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13128a was selected from the N-term region of SEC63. 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.

SEC63 Antibody (N-term) Blocking Peptide - Protein Information

Name SEC63 {ECO:0000303|PubMed:28375157, ECO:0000312|HGNC:HGNC:21082}

Function
Mediates cotranslational and post-translational transport of certain precursor polypeptides across endoplasmic reticulum (ER) (PubMed:22375059, PubMed:29719251). Proposed to play an auxiliary role in recognition of precursors with short and apolar signal peptides. May cooperate with SEC62 and HSPA5/BiP to facilitate targeting of small presecretory proteins into the SEC61 channel-forming translocon complex, triggering channel opening for polypeptide translocation to the ER lumen (PubMed:29719251). Required for efficient PKD1/Polycystin- 1 biogenesis and trafficking to the plasma membrane of the primary cilia (By similarity).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location
Widely expressed, with high levels in the liver.

SEC63 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SEC63 Antibody (N-term) Blocking Peptide - Images

SEC63 Antibody (N-term) Blocking Peptide - Background

The Sec61 complex is the central component of the proteintranslocation apparatus of the endoplasmic reticulum (ER) membrane.The protein encoded by this gene and SEC62 protein are found to beassociated with ribosome-free SEC61 complex. It is speculated thatSec61-Sec62-Sec63 may perform post-translational proteintranslocation into the ER. The Sec61-Sec62-Sec63 complex might alsoperform the backward transport of ER proteins that are subject tothe ubiquitin-proteasome-dependent degradation pathway. The encodedprotein is an integral membrane protein located in the rough ER.

SEC63 Antibody (N-term) Blocking Peptide - References

Waanders, E., et al. Clin. Genet. 78(1):47-56(2010)van Keimpema, L., et al. Liver Int. (2010) In press :Waanders, E., et al. Histochem. Cell Biol. 129(3):301-310(2008)You, K.T., et al. PLoS Biol. 5 (5), E109 (2007) :Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :