10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

SEC24D Blocking Peptide (N-Term)

Synthetic peptide
Catalog # BP22049a

Specification

SEC24D Blocking Peptide (N-Term) - Product Information

Primary Accession O94855

SEC24D Blocking Peptide (N-Term) - Additional Information

Gene ID 9871

Other Names
Protein transport protein Sec24D, SEC24-related protein D, SEC24D, KIAA0755

Target/Specificity
The synthetic peptide sequence is selected from aa 255-266 of HUMAN SEC24D

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.

SEC24D Blocking Peptide (N-Term) - Protein Information

Name SEC24D (HGNC:10706)

Function
Component of the coat protein complex II (COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER). The coat has two main functions, the physical deformation of the endoplasmic reticulum membrane into

SEC24D Blocking Peptide (N-Term) - Background

Component of the COPII coat, that covers ER-derived vesicles involved in transport from the endoplasmic reticulum to the Golgi apparatus. COPII acts in the cytoplasm to promote the transport of secretory, plasma membrane, and vacuolar proteins from the endoplasmic reticulum to the Golgi complex.

SEC24D Blocking Peptide (N-Term) - References

Tang B.L.,et al.Biochem. Biophys. Res. Commun. 258:679-684(1999).
Nagase T.,et al.DNA Res. 5:277-286(1998).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Bonnon C.,et al.J. Cell Sci. 123:1705-1715(2010).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).

vesicles and the selection of cargo molecules for their transport to the Golgi complex (PubMed:17499046, PubMed:20427317, PubMed:18843296). Plays a central role in cargo selection within the COPII complex and together with SEC24C may have a different specificity compared to SEC24A and SEC24B (PubMed:17499046, PubMed:20427317, PubMed:18843296). May more specifically package GPI-anchored proteins through the cargo receptor TMED10 (PubMed:20427317). May also be specific for IxM motif-containing cargos like the SNAREs GOSR2 and STX5 (PubMed:18843296).

Cellular Location
Cytoplasmic vesicle, COPII-coated vesicle membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P53992}; Cytoplasmic side {ECO:0000250|UniProtKB:P53992}. Endoplasmic reticulum membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P53992}; Cytoplasmic side {ECO:0000250|UniProtKB:P53992}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:P53992}

Tissue Location
Ubiquitously expressed, with higher amounts in placenta, pancreas, heart and liver.

SEC24D Blocking Peptide (N-Term) - Protocols

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

- Blocking Peptides