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Ribophorin 2 (RPN2) Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP2410a

Specification

Ribophorin 2 (RPN2) Antibody (N-term) Blocking peptide - Product Information

Primary Accession	P04844
Other Accession	NP_002942

Ribophorin 2 (RPN2) Antibody (N-term) Blocking peptide - Additional Information

Gene ID 6185

Other Names
Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2, Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 63 kDa subunit, RIBIIR, Ribophorin II, RPN-II, Ribophorin-2, RPN2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2410a was selected from the N-term region of human RPN2 . 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.

Ribophorin 2 (RPN2) Antibody (N-term) Blocking peptide - Protein Information

Name RPN2 (HGNC:10382)

Function
Subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation (PubMed:31831667). N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). All subunits are required for a maximal enzyme activity.

Cellular Location
Endoplasmic reticulum {ECO:0000250|UniProtKB:F1PCT7}. Endoplasmic reticulum membrane; Multi- pass membrane protein

Tissue Location
Expressed in all tissues tested.

Ribophorin 2 (RPN2) Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

Ribophorin 2 (RPN2) Antibody (N-term) Blocking peptide - Images

Ribophorin 2 (RPN2) Antibody (N-term) Blocking peptide - Background

RNP2 a type I integral membrane protein found only in the rough endoplasmic reticulum. The encoded protein is part of an N-oligosaccharyl transferase complex that links high mannose oligosaccharides to asparagine residues found in the Asn-X-Ser/Thr consensus motif of nascent polypeptide chains. This protein is similar in sequence to the yeast oligosaccharyl transferase subunit SWP1.

Ribophorin 2 (RPN2) Antibody (N-term) Blocking peptide - References

Kelleher, D.J., et al., Mol. Cell 12(1):101-111 (2003).Fu, J., et al., J. Biol. Chem. 275(6):3984-3990 (2000).Loffler, C., et al., Hum. Genet. 87(2):221-222 (1991).Crimaudo, C., et al., EMBO J. 6(1):75-82 (1987).Stoffel, M., et al., Hum. Mol. Genet. 1 (8), 656 (1992).