

Ribophorin (RPN1) Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP2409a**Specification**

Ribophorin (RPN1) Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [P04843](#)**Ribophorin (RPN1) Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 6184**Other Names**

Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1,
Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 67 kDa subunit, Ribophorin I,
RPN-I, Ribophorin-1, RPN1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2409a](/product/products/AP2409a) was selected from the N-term region of human RPN1 . 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 (RPN1) Antibody (N-term) Blocking peptide - Protein Information**Name** RPN1 ([HGNC:10381](#))**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](http://www.uniprot.org/citations/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:E2RQ08, ECO:0000250|UniProtKB:Q9GMB0}
Endoplasmic reticulum membrane; Single-pass type I membrane protein. Melanosome.
Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

Tissue Location

Expressed in all tissues tested.

Ribophorin (RPN1) Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Ribophorin (RPN1) Antibody (N-term) Blocking peptide - Images**Ribophorin (RPN1) Antibody (N-term) Blocking peptide - Background**

Ribophorins 1 and 2 are abundant and highly conserved glycoproteins residing in the endoplasmic reticulum, that participate in ribosome binding. Mammalian oligosaccharyltransferase activity is associated with a protein complex composed of RPN1, RPN2, and an oligosaccharyltransferase protein. RPN1 is a component of the proteasome base. The ubiquitin-like (UBL) domain of recombinant Rad23 interacts with proteasomes through the leucine-rich repeat domain of RPN1. The RPN1 gene maps to chromosome 3 in somatic cell hybrids, and the RPN2 gene maps to chromosome 20 by in situ hybridization.

Ribophorin (RPN1) Antibody (N-term) Blocking peptide - References

Fu, J., et al., J. Biol. Chem. 275(6):3984-3990 (2000). Pekarsky, Y., et al., Cancer Res. 57(18):3914-3919 (1997). Crimando, C., et al., EMBO J. 6(1):75-82 (1987).