

Ribophorin (RPN1) Antibody (C-term) Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2409B

## Specification

## Ribophorin (RPN1) Antibody (C-term) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW Antigen Region WB,E <u>P04843</u> <u>P07153</u>, <u>091Y05</u>, <u>04R4T0</u> Human, Mouse Monkey, Rat Rabbit Polyclonal Rabbit IgG 68569 531-561

## Ribophorin (RPN1) Antibody (C-term) - 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

This Ribophorin (RPN1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 531-561 amino acids from the C-terminal region of human Ribophorin (RPN1).

### Dilution

WB~~1:1000 E~~Use at an assay dependent concentration.

### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### Precautions

Ribophorin (RPN1) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

# Ribophorin (RPN1) Antibody (C-term) - 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:<u>31831667</u>). 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 (By similarity).

### **Cellular Location**

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:E2RQ08}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:E2RQ08}. 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 (C-term) - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

## Ribophorin (RPN1) Antibody (C-term) - Images



The anti-RPN1 Pab (Cat. #AP2409b) is used in Western blot to detect RPN1 in HeLa cell lysate (Lane 1) and mouse liver tissue lysate (Lane 2).





All lanes : Anti-RPN1 Antibody (D546) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 69 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

# Ribophorin (RPN1) Antibody (C-term) - Background

Ribophorins 1 and 2 are abundant and highly conserved glycoproteins residing in the endoplasic 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 (C-term) - References

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