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Ribophorin (RPN1) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2409B

Product Information

Application	WB, E
Primary Accession	P04843
Other Accession	P07153, Q91YQ5, Q4R4T0
Reactivity	Human, Mouse
Predicted	Monkey, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB4832
Calculated MW	68569
Antigen Region	531-561

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.

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). 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.

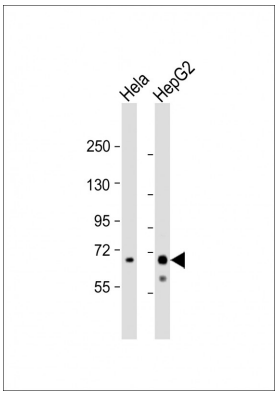
Background

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.

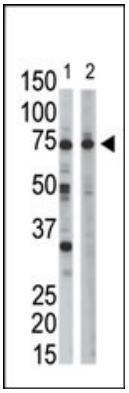
References

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).

Images



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 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 69 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.