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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, Bovine, Canine, Rabbit, Chicken
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.

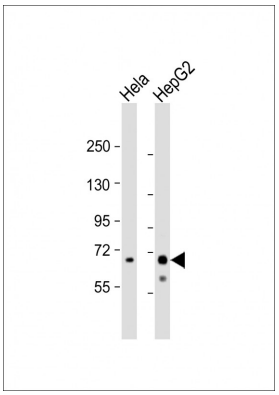
Background

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.

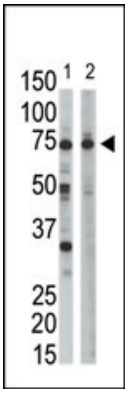
References

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'.