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Ribophorin 2 (RPN2) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2410a

Product Information

Application	IHC-P, E
Primary Accession	P04844
Other Accession	P25235, Q9GL01, Q3SZI6, NP_002942
Reactivity	Human
Predicted	Bovine, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB4833
Calculated MW	69284
Antigen Region	16-46

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	This Ribophorin 2 (RPN2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 16-46 amino acids from the N-terminal region of human Ribophorin 2 (RPN2).
Dilution	IHC-P~~1:100~500 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 2 (RPN2) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

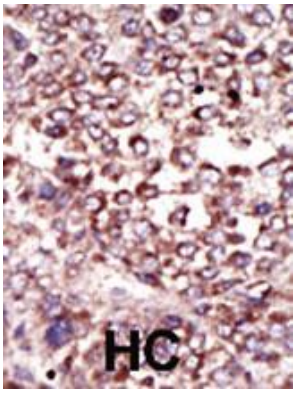
Background

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.

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).

Images



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.