

For Research Use Only

Ribophorin I Polyclonal antibody

Catalog Number: 12894-1-AP

Featured Product

18 Publications



Basic Information

Catalog Number:

12894-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3576

GenBank Accession Number:

BC010839

GeneID (NCBI):

6184

UNIPROT ID:

P04843

Full Name:

ribophorin I

Calculated MW:

69 kDa

Observed MW:

66-69 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:12000

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, yeast

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HT-29 cells, K-562 cells, HeLa cells

IHC: mouse lung tissue, rat liver tissue

Background Information

Ribophorin I, also named as RPN1, is a key protein component of the oligosaccharyltransferase (OST) complex, which is embedded in the membrane of the rough endoplasmic reticulum (RER) (PMID: 38373565). It plays a crucial role in the process of N-linked glycosylation, a post-translational modification essential for the proper folding, stability, and function of many secretory and membrane-bound proteins (PMID: 17264154). Ribophorin I, along with Ribophorin II, forms a heterodimeric complex that facilitates the transfer of oligosaccharides from a lipid-linked donor to specific asparagine residues on nascent polypeptide chains (PMID: 30940778).

Notable Publications

Author	Pubmed ID	Journal	Application
Cecilia Lopez-Sambrooks	27694802	Nat Chem Biol	WB
Soyeon Park	23644457	Nature	WB
Mark Sicking	35064074	Life Sci Alliance	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

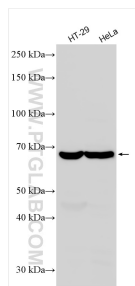
For technical support and original validation data for this product please contact:

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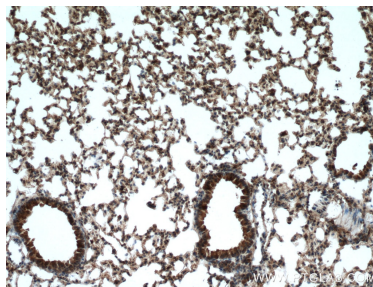
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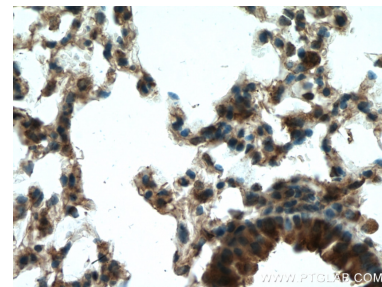
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12894-1-AP (RPN1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 12894-1-AP (RPN1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 12894-1-AP (RPN1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).