

For Research Use Only

Ribophorin I Polyclonal antibody

Catalog Number: 12894-1-AP

Featured Product

17 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

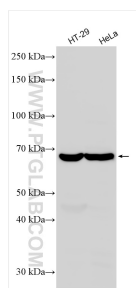
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

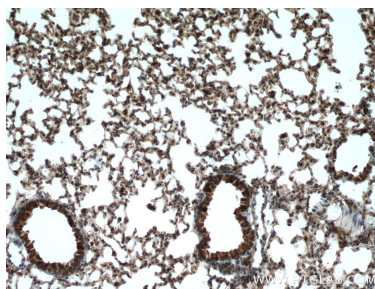
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

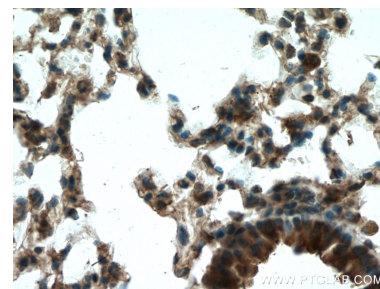
Selected Validation Data



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).