10320 Camino Santa Fe, Suite G
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KD-Validated Anti-Ribophorin I Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1651

Specification

KD-Validated Anti-Ribophorin I Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P04843
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 69 kDa , observed , 69 kDa KDa**
Gene Name	**RPN1**
Aliases	**Ribophorin I; OST1; Dolichyl-Diphosphooligosaccharide--Protein Glycosyltransferase Subunit 1; Oligosaccharyltransferase Complex Subunit (Non-Catalytic); Ribophorin-1; RPN-I; Dolichyl-Diphosphooligosaccharide--Protein Glycosyltransferase 67 KDa Subunit; Dolichyl-Diphosphooligosaccharide-Protein Glycosyltransferase 67 KDa Subunit; Oligosaccharyltransferase 1 Homolog (S. Cerevisiae); Oligosaccharyltransferase 1 Homolog; EC 2.4.1.119; RBPH1**
Immunogen	**A synthesized peptide derived from human PRibophorin I**

KD-Validated Anti-Ribophorin I Rabbit Monoclonal Antibody - 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 (HGNC:10381)

KD-Validated Anti-Ribophorin I Rabbit Monoclonal Antibody - 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:<a

href="http://www.uniprot.org/citations/31831667" target="_blank">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.

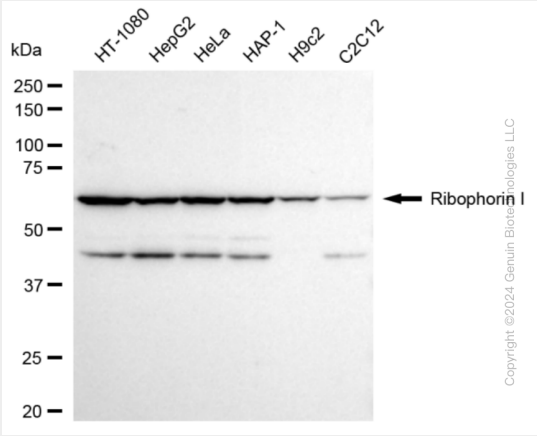
Tissue Location
Expressed in all tissues tested.

KD-Validated Anti-Ribophorin I Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Ribophorin I Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Ribophorin I antibody (Cat#AGI1651). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Ribophorin I antibody (Cat#AGI1651, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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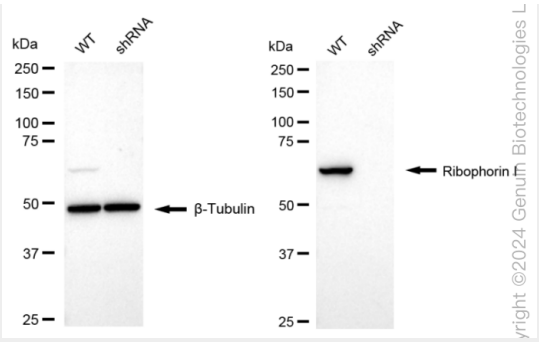
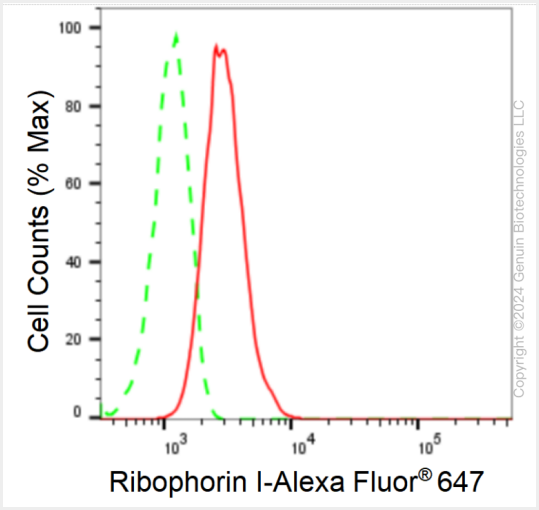


Western blotting analysis using anti-Ribophorin I antibody (Cat#AGI1651). Ribophorin I expression in wild type (WT) and Ribophorin I shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Ribophorin I antibody (Cat#AGI1651, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Ribophorin I expression in HT-1080 cells using anti-Ribophorin I antibody (Cat#AGI1651, 1:2,000). Green, isotype control; red, Ribophorin I.