

For Research Use Only

ATP7B-Specific Recombinant antibody

Catalog Number: 85288-2-RR



Basic Information

Catalog Number:

85288-2-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000053

GeneID (NCBI):

540

UNIPROT ID:

P35670

Full Name:

ATPase, Cu⁺⁺ transporting, beta polypeptide

Calculated MW:

157 kDa

Observed MW:

150 kDa

Purification Method:

Protein A purification

CloneNo.:

242827B3

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:1000-1:4000

IF-P: 1:200-1:800

FC (Intra): 0.25 µg per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF-P, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

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: mouse liver tissue, rat liver tissue

IHC: mouse liver tissue,

IF-P: mouse liver tissue,

FC (Intra): HepG2 cells,

Background Information

ATP7B, also named as PWD, WC1 and WND, belongs to the cation transport ATPase (P-type) family and Type IB subfamily. ATP7B is involved in the export of copper out of the cells, such as the efflux of hepatic copper into the bile. ATP7B catalyzes the reaction: ATP + H₂O + Cu²⁺(In) = ADP + phosphate + Cu²⁺(Out). Defects in ATP7B are the cause of Wilson disease (WD). This antibody is specific to ATP7B.

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

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

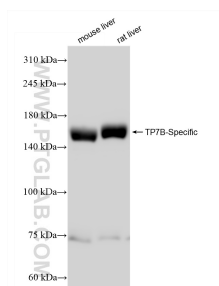
T: 4006900926

E: Proteintech-CN@ptglab.com

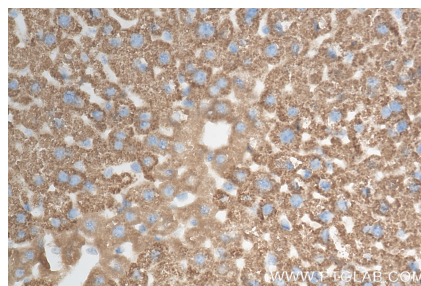
W: ptgcn.com

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

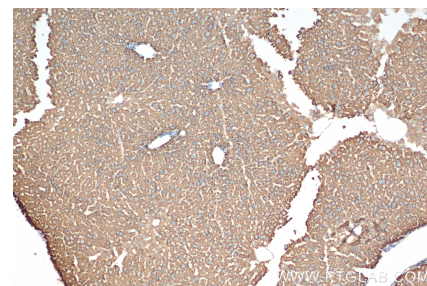
Selected Validation Data



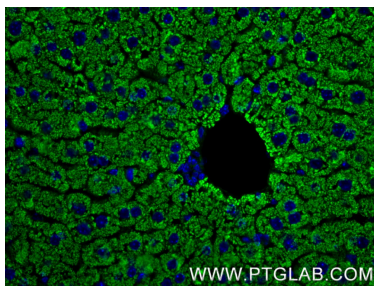
Various lysates were subjected to SDS PAGE followed by western blot with 85288-2-RR (ATP7B-Specific antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



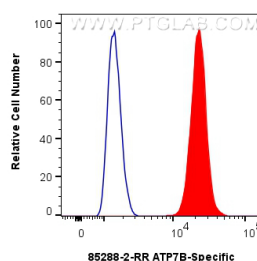
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 85288-2-RR (ATP7B-Specific antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 85288-2-RR (ATP7B-Specific antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using ATP7B-Specific antibody (85288-2-RR, Clone: 242827B3) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 HepG2 cells were intracellularly stained with 0.25 μ g ATP7B-Specific Recombinant antibody (85288-2-RR, Clone:242827B3) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 μ g Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).