

For Research Use Only

ERp72 Polyclonal antibody

Catalog Number:14712-1-AP

Featured Product

46 Publications



Basic Information

Catalog Number:

14712-1-AP

Concentration:

650 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6431

GenBank Accession Number:

BC000425

GeneID (NCBI):

9601

UNIPROT ID:

P13667

Full Name:

protein disulfide isomerase family A, member 4

Calculated MW:

73 kDa

Observed MW:

72 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:10000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, pig, monkey

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 brain tissue, HeLa cells, HepG2 cells, L02 cells, mouse liver tissue, rat liver tissue

IP : HeLa cells,

IHC : human liver cancer tissue, human prostate cancer tissue

IF/ICC : A431 cells, PC-3 cells

FC (Intra) : HepG2 cells,

Background Information

PDIA4 (Protein disulfide-isomerase A4) is also named as ERP70, ERP72 and belongs to the protein disulfide isomerase family. It catalyzes the rearrangement of -S-S- bonds in proteins. ERp72 is a soluble protein localized in the ER lumen and contains the COOH-terminal retention signal, KEEL. There are 6 cysteine residues in the amino acid sequences of mouse and human ERp72. All of the cysteine residues occur in the internal thioredoxin motif, CGHC (PMID:15475357). The full length protein has a signal peptide with 20 amino acid.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------------|-----------|-------------|-------------|
| Shifeng Tong | 36181861 | Cryobiology | IF |
| Feng Xing | 36082822 | Oncol Rep | IHC, WB |
| Nirav Florian Chhabra | 34487921 | Mol Metab | 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

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

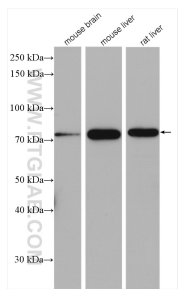
T: 4006900926

E: Proteintech-CN@ptglab.com

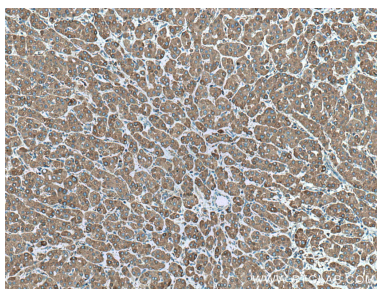
W: ptgcn.com

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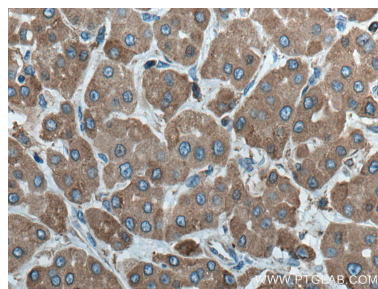
Selected Validation Data



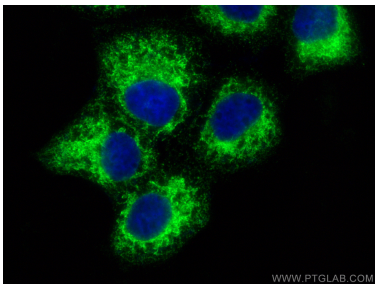
Various lysates were subjected to SDS PAGE followed by western blot with 14712-1-AP (ERp72 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



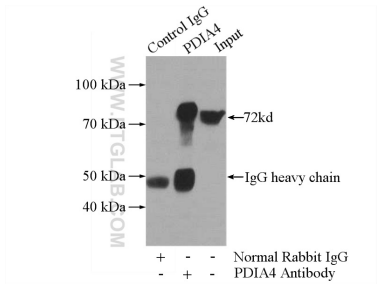
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14712-1-AP (ERp72 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



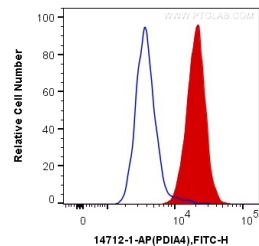
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14712-1-AP (ERp72 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed A431 cells using ERp72 antibody (14712-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



IP result of anti-ERp72 (IP:14712-1-AP, 4ug; Detection:14712-1-AP 1:500) with HeLa cells lysate 2800ug.



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human ERp72 (14712-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).