

Anti-ERp72 Antibody [10-F2]

EM1701-95



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IF-Cell, FC
Molecular Wt:	Predicted band size: 73 kDa
Clone number:	10-F2

Description: This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, three catalytically active thioredoxin (TRX) domains, two TRX-like domains and a C-terminal ER-retention sequence. This protein, when bound to cyclophilin B, enhances the rate of immunoglobulin G intermolecular disulfide bonding and antibody assembly.

Immunogen: Synthetic peptide within Human ERp72 aa 596-645 / 645.

Positive control: A431 cell lysates, HeLa, NIH/3T3, rat testis tissue, human lung cancer tissue, human liver tissue, human placenta tissue, mouse brain tissue, SiHa.

Subcellular location: Endoplasmic reticulum.

Database links: SwissProt: P13667 Human | P08003 Mouse | P38659 Rat

Recommended Dilutions:

WB	1:500-1:2,000
IF-Cell	1:100
IHC-P	1:50-1:200
FC	1:50-1:100

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein G affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of ERp72 on A431 cell lysates with Mouse anti-ERp72 antibody (EM1701-95) at 1/2,000 dilution.

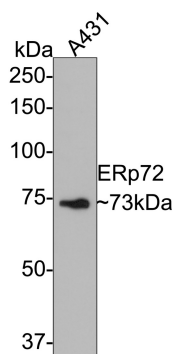
Lysates/proteins at 10 µg/Lane.

Predicted band size: 73 kDa

Observed band size: 73 kDa

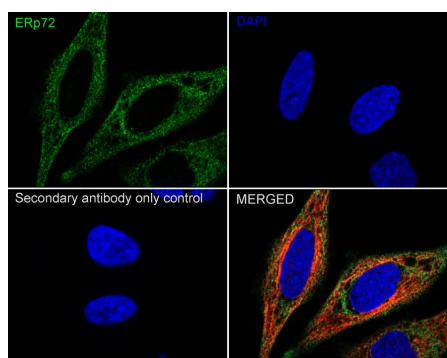
Exposure time: 1 minute;

8% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (EM1701-95) at 1/2,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:100,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of HeLa cells labeling ERp72 with Mouse anti-ERp72 antibody (EM1701-95) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-ERp72 antibody (EM1701-95) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

beta Tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) were used as the secondary antibody at 1/1,000 dilution.

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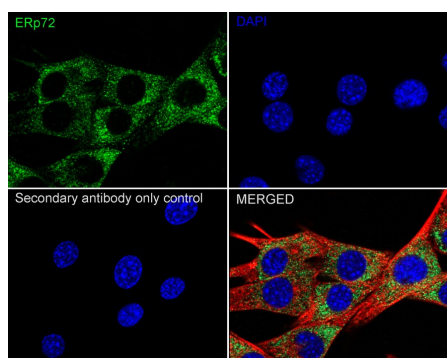
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Fig3: Immunocytochemistry analysis of NIH/3T3 cells labeling ERp72 with Mouse anti-ERp72 antibody (EM1701-95) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-ERp72 antibody (EM1701-95) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

beta Tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) were used as the secondary antibody at 1/1,000 dilution.

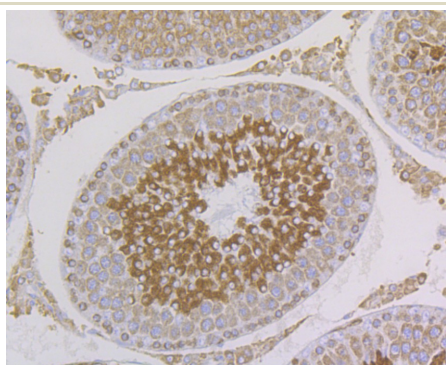


Fig4: Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-ERp72 antibody. Counter stained with hematoxylin.

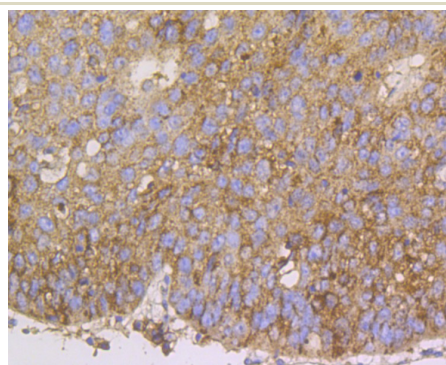


Fig5: Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-ERp72 antibody. Counter stained with hematoxylin.

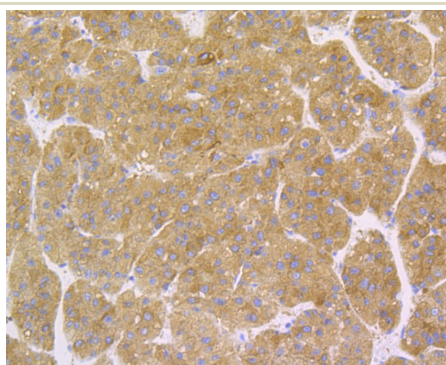


Fig6: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-ERp72 antibody. Counter stained with hematoxylin.

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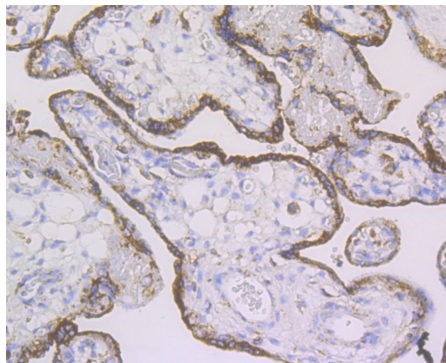


Fig7: Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-ERp72 antibody. Counter stained with hematoxylin.

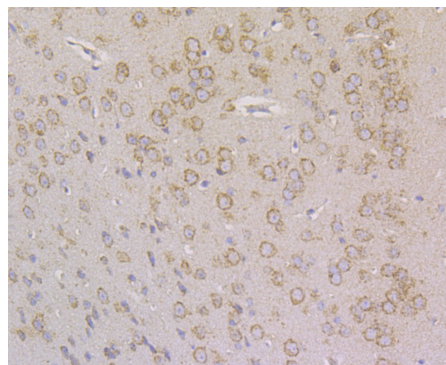


Fig8: Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-ERp72 antibody. Counter stained with hematoxylin.

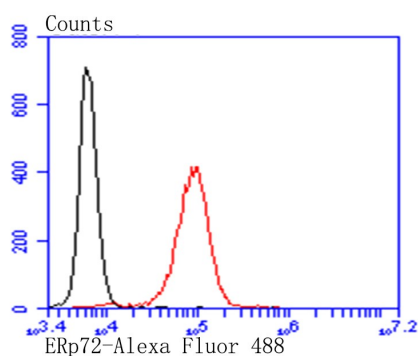


Fig9: Flow cytometric analysis of SiHa cells with ERp72 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-mouse IgG was used as the secondary antibody.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Huang S-H et al. Human deoxycytidine kinase. Sequence of cDNA clones and analysis of expression in cell lines with and without enzyme activity. *Biol Chem* 264:14762-14768(1989).
2. Chi A et al. Proteomic and bioinformatic characterization of the biogenesis and function of melanosomes. *J Proteome Res* 5:3135-3144(2006).

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