10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ERp72 Antibody
Catalog # ASC11935

Specification

ERp72 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	P13667
Other Accession	NP_004902, 4758304
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 71 kDa; Observed: 75 kDa KDa**
Application Notes	**ERp72 antibody can be used for detection of ERp72 by Western blot at 1 - 2 µg/ml. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.**

ERp72 Antibody - Additional Information

Gene ID **9601**

Target/Specificity
PDIA4; ERP72 antibody is human, mouse and rat reactive.

Reconstitution & Storage
ERp72 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
ERp72 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ERp72 Antibody - Protein Information

Name PDIA4

Synonyms ERP70, ERP72

Cellular Location
Endoplasmic reticulum lumen. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065)

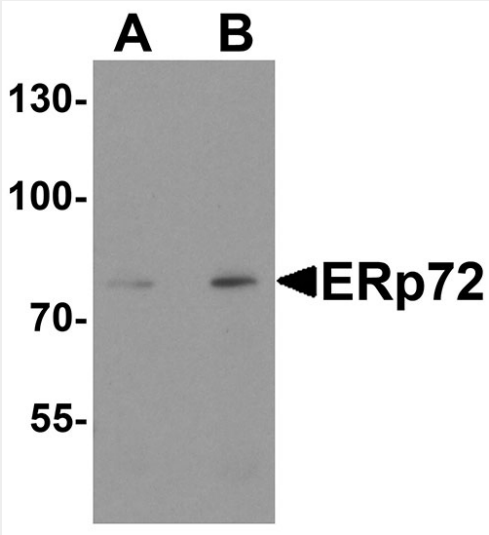
ERp72 Antibody - Protocols

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

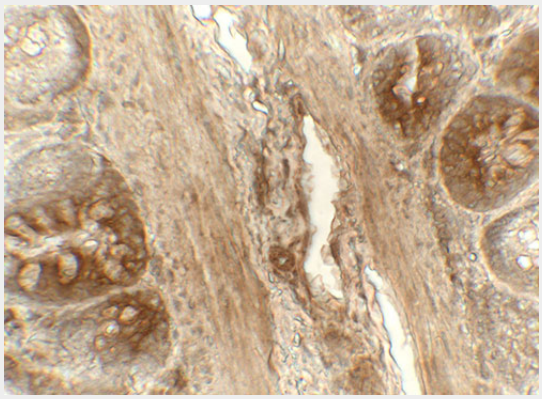
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- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ERp72 Antibody - Images

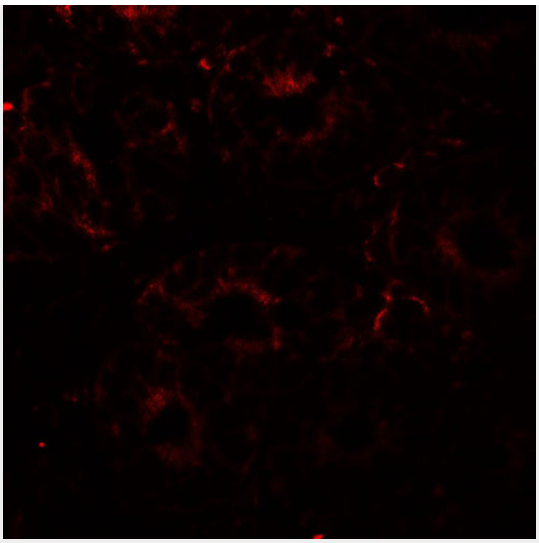


Western blot analysis of ERp72 in human colon tissue lysate with ERp72 antibody at (A) 1 and (B) 2 µg/ml.



Immunohistochemistry of ERp72 in rat colon tissue with ERp72 antibody at 5 µg/mL.

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Immunofluorescence of ERp72 in rat colon tissue with ERp72 antibody at 20 µg/mL.

ERp72 Antibody - Background

Protein disulfide isomerase (PDI) has two thioredoxin homology domains and catalyzes the formation and isomerization of these disulfide bonds (1,2). ER stress protein 72 (ERp72), also designated protein disulfide-isomerase A4, is involved in the catalysis of protein -S-S- bond rearrangement (3). It plays a role in the formation and isomerization of disulfide bonds (3,4).

ERp72 Antibody - References

Huppa JB and Ploegh HL. The eS-Sence of -SH in the ER. Cell 1998; 92:145-8.
Ellgaard L and Ruddock LW. The human protein disulphide isomerase family: substrate interactions and functional properties. EMBO Rep. 2005; 6:28-32.
Mazzarella RA, Srinivasan M, Haugejorden SM, et al. ERp72, an abundant luminal endoplasmic reticulum protein, contains three copies of the active site sequences of protein disulfide isomerase. J. Biol. Chem. 1990; 265:1094-101.
Satoh M, Shimada A, Keino H, et al. Functional characterization of 3 thioredoxin homology domains of ERp72. Cell Stress Chaperones 2005; 10:278-84.