


#2798 Store at -20C	ERp72 Antibody	
	Orders: 877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	72	Rabbit	#P13667	9601

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

ERp72 Antibody detects endogenous levels of total ERp72 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human ERp72. Antibodies are purified by peptide affinity chromatography.

Background

Secretory proteins translocate into the endoplasmic reticulum (ER) during synthesis where they are post-translationally modified and properly folded. To reach their native conformation, many secretory proteins require the formation of intra- or inter-molecular disulfide bonds (1). This process is called oxidative protein folding. Protein disulfide isomerase (PDI) has two thioredoxin homology domains and catalyzes the formation and isomerization of these disulfide bonds (2). Other ER resident proteins that possess thioredoxin homology domains, including ER stress protein 72 (ERp72), constitute the PDI family (3,4). ERp72 contains three thioredoxin homology domains (3) and plays a role in the formation and isomerization of disulfide bonds (3,4).

Background References

- Huppa, J.B. and Ploegh, H.L. (1998) *Cell* 92, 145-8.
- Elgaard, L. and Ruddock, L.W. (2005) *EMBO Rep* 6, 28-32.
- Mazzarella, R.A. et al. (1990) *J Biol Chem* 265, 1094-101.
- Satoh, M. et al. (2005) *Cell Stress Chaperones* 10, 278-84.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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