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ERp72 (D70D12) XP® Rabbit mAb



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Applications: WB, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 72	Source/Isotype: Rabbit IgG	UniProt ID: #P13667	Entrez-Gene Id: 9601
Product Usage Information	We	Dlication stern Blotting nunofluorescence (I	mmunocytochen	Dilution 1:1000 1:50 - 1:200		
	Flow Cytometry (Fixed/Permeabilized)				1:50 - 1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensit	ivity ERp	ERp72 (D70D12) $XP^{\text{@}}$ Rabbit mAb detects endogenous levels of total ERp72 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the residues surrounding Met279 of human ERp72 protein.				
Background	trans requ foldii form thior ERp	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 Refer	2. El 3. M	 Huppa, J.B. and Ploegh, H.L. (1998) Cell 92, 145-8. Ellgaard, 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.

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Applications Key WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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