## **ERp44 Antibody**



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 44	Source: Rabbit	UniProt ID: #Q9BS26	Entrez-Gene Id: 23071	
Product Usage Information	Application			Dilution			
	We	estern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	<b>rity</b> ERp	<b>ty</b> ERp44 Antibody detects endogenous levels of total ERp44 protein.					
Source / Purification	-	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human ERp44. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	posi prot oxid the thio the	Secretory proteins translocate into the endoplasmic reticulum (ER) after their 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. 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 the thioredoxin homology domains, including endoplasmic reticulum resident protein 44 (ERp44), constitute the PDI family (2). ERp44 is induced upon ER stress and is linked to Ero1-L $\alpha$ and Ero1-L $\beta$ through mixed disulfide bonds (3). ERp44 was shown to mediate the ER localization of Ero1-L $\alpha$ (4).					
Background Referen	2. E 3. A	<ol> <li>Huppa, J.B. and Ploegh, H.L. (1998) Cell 92, 145-8.</li> <li>Ellgaard, L. and Ruddock, L.W. (2005) EMBO Rep 6, 28-32.</li> <li>Anelli, T. et al. (2002) EMBO J 21, 835-44.</li> <li>Anelli, T. et al. (2003) EMBO J 22, 5015-22.</li> </ol>					

**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** 

WB: Western Blotting

**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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