146 Store at -20C

PDI Antibody



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Applications: WB, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 57	Source: Rabbit	UniProt ID: #P07237	Entrez-Gene Id 5034	
Product Usage Information	Ap	plication				Dilution	
	We	stern Blotting				1:1000	
	lmr	nunohistochemistry	(Paraffin)			1:100	
	lmr	munofluorescence (Immunocytochemis	stry)		1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensiti	ivity PDI	PDI Antibody detects endogenous levels of total PDI protein.					
Source / Purification	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro329 of human PDI. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	posi prot oxid thes oxid	During their synthesis, secretory proteins translocate into the endoplasmic reticulum (ER) 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) catalyzes the formation and isomerization of these disulfide bonds (2). Studies on mechanisms of oxidative folding suggest that molecular oxygen oxidizes the ER-protein Ero1, which in turn oxidizes PDI through disulfide exchange (3). This event is then followed by PDI-catalyzed disulfide bond formation in folding proteins (3).					
 Huppa, J.B. and Ploegh, H.L. (1998) Cell 92, 145-148. Ellgaard, L. and Ruddock, L.W. (2005) EMBO Rep. 6, 28-32. Tu, B.P. and Weissman, J.S. (2004) J. Cell Biol. 164, 341-346. 							

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

 $\textbf{WB:} \ \textbf{Western Blotting IHC-P:} \ \textbf{Immunohistochemistry (Paraffin)}$

IF-IC: Immunofluorescence (Immunocytochemistry)

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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