

PDI (E7O2R) Mouse mAb

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IHC-P, IF-IC	H M R Mk	Endogenous	Mouse IgG1 kappa	#P07237	5034
Product Usage Information	Application				Dilution
	Immunohistochemistry (Paraffin)				1:400 - 1:1600
	Immunofluorescence (Immunocytochemistry)				1:100 - 1:400
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. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity	PDI (E7O2R) Mouse mAb recognizes endogenous levels of total PDI protein.				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu332 of human PDI protein.				
Background	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).				
Background References	1. Huppa, J.B. and Ploegh, H.L. (1998) <i>Cell</i> 92, 145-148. 2. Ellgaard, L. and Ruddock, L.W. (2005) <i>EMBO Rep.</i> 6, 28-32. 3. Tu, B.P. and Weissman, J.S. (2004) <i>J. Cell Biol.</i> 164, 341-346.				

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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