## PDI (C81H6) Rabbit mAb



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<b>Applications:</b> W, IHC-P, IF-IC	Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 57	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P07237	Entrez-Gene Id 5034
Product Usage Information	•	<b>Application</b> Western Blotting Immunohistochemis Immunofluorescence	• .	nistry)		<b>Dilution</b> 1:1000 1:1250 1:100
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BS	A and azide free) ve	sion of this product see	product #80797.	
Specificity/Sensitivity		PDI (C81H6) Rabbit mAb detects endogenous levels of total PDI protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human PDI.				
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 Plo 2. Ellgaard, L. and Ru 3. Tu, B.P. and Weissr	ddock, L.W. (2005) <i>E</i>	MBO Rep. 6, 28-32.		
Species Reacti	vity	Species reactivity is c	letermined by testin	g in at least one approve	ed 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		<b>W:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)				cence
Cross-Reactivit	ty Key	<b>H:</b> Human <b>M:</b> Mouse	R: Rat Mk: Monkey			
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