e at -20C	PDI (C81H6) Rabbit mAb			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
)1		Support:	877-678-TECH (8324)	
#3501		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane   Danvers   Mas	ssachusetts   01923   USA	

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

Applications: WB, IHC-P, IF-IC	<b>Reactivity:</b> H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 57	Source/Isotype: Rabbit	<b>UniProt ID:</b> #P07237	Entrez-Gene Id: 5034		
Product Usage	Ар	plication				Dilution		
Information	We	estern Blotting				1:1000		
	Im	munohistochemistry	/ (Paraffin)			1:1250		
	Im	Immunofluorescence (Immunocytochemistry) 1:100						
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu g/ml$ BSA, 50% g 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				cerol and less than		
	For	a carrier free (BSA	and azide free) v	ersion of this product se	e product #80797.			
Specificity / Sensi	itivity PDI	PDI (C81H6) Rabbit mAb detects endogenous levels of total PDI protein.						
Source / Purificati	•••	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human PDI.						
Background	pos prot oxic thes oxic	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 Refe	2. E	<ol> <li>Huppa, J.B. and Ploegh, H.L. (1998) <i>Cell</i> 92, 145-148.</li> <li>Ellgaard, L. and Ruddock, L.W. (2005) <i>EMBO Rep.</i> 6, 28-32.</li> <li>Tu, B.P. and Weissman, J.S. (2004) <i>J. Cell Biol.</i> 164, 341-346.</li> </ol>						
Species Reactivity	y Spec	cies reactivity is dete	ermined by testin	g in at least one approve	ed application (e.g., w	vestern blot).		
Western Blot Buff		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>WB:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity I	<b>X:</b> X:	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>						
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## PDI (C81H6) Rabbit mAb (#3501) Datasheet Without Images Cell Signaling Technology

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