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e at -20C	BiP (C50B12) Rabbit mAb				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#		3 Trask Lane Danvers	Massachusetts 01923 USA		

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

Applications: WB, IHC-P, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #P11021	Entrez-Gene Id: 3309		
Product Usage	Ар	plication			Dilution			
Information	We	Western Blotting			1:1000	1:1000		
	Im	munohistochemistry	(Paraffin)		1:100 -	1:400		
	Flo	Flow Cytometry (Fixed/Permeabilized) 1:100 - 1:400			1:400			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
	For	For a carrier free (BSA and azide free) version of this product see product #63411.						
Specificity / Sensi	tivity BiP	BiP (C50B12) Rabbit mAb detects endogenous levels of total BiP protein.						
Source / Purification		BiP (C50B12) Rabbit mAb is produced by immunizing rabbits with a synthetic peptide corresponding to residues surrounding Gly584 of human BiP.						
Background		Secretory and transmembrane proteins are synthesized on polysomes and translocated into the endoplasmic reticulum (ER). Inside the ER, these proteins are often modified by disulfide bond formation, amino-linked glycosylation and folding. To help proteins fold properly, the ER contains a pool of molecular chaperones including BiP. BiP was identified as an immunoglobulin heavy chain binding protein in pre-B cells (1,2). It was also found to be induced at the protein level by glucose starvation (3). When protein folding is disturbed inside ER, BiP synthesis is increased. Subsequently, BiP binds to misfolded proteins to prevent them from forming aggregates and assists in proper refolding (4).						
Background Refer	2. H 3. M	 Wabl, M. and Steinberg, C. (1982) Proc Natl Acad Sci U S A 79, 6976-8. Haas, I.G. and Wabl, M. (1983) Nature 306, 387-9. Munro, S. and Pelham, H.R. (1986) Cell 46, 291-300. Kohno, K. et al. (1993) Mol Cell Biol 13, 877-90. 						
Species Reactivity	y Spec	cies reactivity is deter	rmined by testing	in at least one approve	ed application (e.g., we	estern 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	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) FC-FP: Flow Cytometry (Fixed/F				(Fixed/Permeabilized)		
Cross-Reactivity F	X: X:	 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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BiP (C50B12) Rabbit mAb (#3177) Datasheet Without Images Cell Signaling Technology

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