BiP Antibody						
Store	Orders: 877-616-CELL (2355) orders@cellsignal.com					
20	Support: 877-678-TECH (8324)					
#3183	Web: info@cellsignal.com cellsignal.com					
#	3 Trask Lane   Danvers   Massachusetts   01923   USA					
For Research Use Only. Not for Use in Diagnostic Procedures.						

Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 78	Source/Isotype: Rabbit	<b>UniProt ID:</b> #P11021	Entrez-Gene Id: 3309	
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity BiP Antibody			endogenous levels	of total BiP protein.			
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg26 of human BiP protein. Antibodies are purified by protein A and peptide affinity chromatography.					
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 Re	eferences	1. Wabl, M. and Steinberg, C. (1982) <i>Proc Natl Acad Sci U S A</i> 79, 6976-8. 2. Haas, I.G. and Wabl, M. (1983) <i>Nature</i> 306, 387-9. 3. Munro, S. and Pelham, H.R. (1986) <i>Cell</i> 46, 291-300. 4. Kohno, K. et al. (1993) <i>Mol Cell Biol</i> 13, 877-90.					
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting					
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey					
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