Rev	isi	ion	4

e at -20C	CHOP (L63F7) Mouse mAb		Cell Signaling
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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	esearch Use Only. Not for Use in Diagnostic Procedures.		

Applications: W, IP, IF-IC, FC-FP, ChIP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 27	Source/Isotype: Mouse IgG2a	UniProt ID: #P35638	Entrez-Gene Id 1649		
Product Usage Information		For optimal ChIP results, use 2.5 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) pe IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.						
		Application			Dilut	tion		
		Western Blotting			1:1000			
		Immunoprecipitation			1:50			
		Immunofluorescence (Immunocytochemistry)			1:400	0 - 1:1600		
		Flow Cytometry (Fixed/Permeabilized) Chromatin IP			1:250 - 1:1000 1:200			
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. Do not aliquot the antibody.						
		For a carrier free (BSA and azide free) version of this product see product #78063.						
Specificity/Sensit	ecificity/Sensitivity CHOP (L63F7) Mouse mAb detects endogenous levels of total CHOP protein.							
Source / Purificat	tion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CHOP protein.						
Background		CHOP was identified as a C/EBP-homologous protein that inhibits C/EBP and LAP in a dominant- negative manner (1). CHOP expression is induced by certain cellular stresses including starvation and the induced CHOP suppresses cell cycle progression from G1 to S phase (2). Later it was shown that, during ER stress, the level of CHOP expression is elevated and CHOP functions to mediate programmed cell death (3). Studies also found that CHOP mediates the activation of GADD34 and Ero1-La expression during ER stress. GADD34 in turn dephosphorylates phospho-Ser51 of eIF2a thereby stimulating protein synthesis. Ero1-La promotes oxidative stress inside the endoplasmic reticulum (ER) (4). The role of CHOP in the programmed cell death of ER-stressed cells is correlated with its role promoting protein synthesis and oxidative stress inside the ER (4).						
Background Refe	rences	1. Ron, D. and Haben 2. Barone, M.V. et al. (3. Zinszner, H. et al. (1 4. Marciniak, S.J. et al	(1994) <i>Genes Dev</i> 8, 1998) <i>Genes Dev</i> 12,	453-64. 982-95.				
Species Reactivit	у	Species reactivity is d	letermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Buf	fer	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		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP						
Cross-Reactivity	Key	H: Human M: Mouse	R: Rat					
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