e at -20C	p58IPK (C56E7) Rabbit mAb		Cell Signaling TECHNOLOGY®		
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For Research Use Only. Not for Use in Diagnostic Procedures.									
Applications: WB, IP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 58	Source/Isotype: Rabbit IgG	UniProt ID: #Q13217	Entrez-Gene Id: 5611			
Product Usage Information	Ар	Application Dilution							
Information	We	estern Blotting		1:1000					
	Imi	Immunoprecipitation 1:50							
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.							
Specificity / Sensitiv	ity p58	p58IPK (C56E7) Rabbit mAb detects endogenous levels of total p58IPK protein.							
Source / Purificatior		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp127 of human p58IPK.							
Background	phy: and p58 indu activ resp	p58IPK is an inhibitor of interferon-induced and double-stranded RNA-activated protein kinase (PKR). It physically interacts with PKR and inhibits its activation and activity (1). Influenza virus activates p58IPK and thus blocks the activity of PKR to repress translation in the infected cells. In the uninfected cells, p58IPK forms a complex with its own inhibitor, HSP40, and is kept in an inactive state (2). ER stress induces the expression of p58IPK mediated by ATF6 (3,4). The induced p58IPK negatively regulates Perk activity, inhibits eIF2α phosphorylation and suppresses the activation of expression of downstream ER-responsive genes ATF4 and GADD153 (4). More recently, p58IPK has been shown to associate with the lumen of the endoplasmic reticulum (ER) where it is believed to serve as a cochaperone for BiP (5).							
Background Refere	2. M 3. Y 4. va	 Gale, M. et al. (1996) Mol Cell Biol 16, 4172-81. Melville, M.W. et al. (1997) Proc Natl Acad Sci USA 94, 97-102. Yan, W. et al. (2002) Proc Natl Acad Sci USA 99, 15920-5. van Huizen, R. et al. (2003) J Biol Chem 278, 15558-64. Rutkowski, D.T. et al. (2007) Mol Biol Cell 18, 3681-91. 							
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).							
Western Blot Buffer				s, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, gentle shaking, overnight.					
Applications Key	WB	WB: Western Blotting IP: Immunoprecipitation							
Cross-Reactivity Ke	X : Xe	enopus Z: zebrafish	an M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster opus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse inea Pig Rab: rabbit All: all species expected						
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Limited Uses

p58IPK (C56E7) Rabbit mAb (#2940) Datasheet Without Images Cell Signaling Technology

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