#2940 Store at -20C

p58IPK (C56E7) Rabbit mAb



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Applications: W	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 58	Source/Isotype: Rabbit IgG	UniProt ID: #Q13217	Entrez-Gene Id: 5611		
Product Usage Information	2	Application Western Blotting			Dilution 1:1000			
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/Sen	sitivity	p58IPK (C56E7) Rabbit mAb detects endogenous levels of total p58IPK protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp127 of human p58IPK.						
Background		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 R	eferences	1. Gale, M. et al. (1996 2. Melville, M.W. et al. 3. Yan, W. et al. (2002) 4. van Huizen, R. et al. 5. Rutkowski, D.T. et al	(1997) <i>Proc Natl Ac Proc Natl Acad Sci</i> (2003) <i>J Biol Chem</i>	<i>ad Sci USA</i> 94, 97-102. <i>USA</i> 99, 15920-5. 278, 15558-64.				
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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 K	ey	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human M: Mouse Mk: Monkey						
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