43179

Phospho-PERK (Thr980) (16F8) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 170	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Z2B5	Entrez-Gene Id: 13666
Product Usage Information		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/Sensitivity		Phospho-PERK (Thr980) (16F8) Rabbit mAb detects endogenous levels of PERK phosphorylated at Thr980.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr980 of mouse PERK.				
Background		resident in the endop inhibition (1-3). ER str reduced translation. F pancreatic β cells seve protecting secretory o	lasmic reticulum (El ess increases the ac Research studies ha eral weeks after birt cells from ER stress of its cytoplasmic k	n kinase (PERK) is an eIFR) membrane that coupl tivity of PERK, which the ve demonstrated that PI h, suggesting a role for (4). PERK activation duri inase domain (1-3). Phos	es ER stress signals en phosphorylates e ERK-deficient mice h PERK-mediated trai ng ER stress correla	to translation eIF2α to promote have defects in hislational control in tes with
Background References		1. Harding, H. et al. (1999) <i>Nature</i> 397, 271-274. 2. Shi, Y. et al. (1998) <i>Mol. Cell. Biol.</i> 18, 7499-7509. 3. Harding, H. et al. (2000) <i>Mol. Cell</i> 5, 897-904. 4. Harding, H. et al. (2001) <i>Mol. Cell</i> 7, 1153-1163.				
Species Reactiv	rity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot 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 Key		W: Western Blotting				
Cross-Reactivity Key		M: Mouse R: Rat				
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