Rabbit mAb

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Phospho-elF4B (Ser406) (D1C10)



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Applications: Reacti WB, IP H M		MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #P23588	Entrez-Gene Id: 1975	
Product Usage Information	Application Western Blotting Immunoprecipitation			Dilution 1:1000 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 / Sensitivity	Phospho-eIF4B (Ser406) (D1C10) Rabbit mAb recognizes endogenous levels of eIF4B protein only when phosphorylated at Ser406.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser406 of human eIF4B protein.					
Background	Eukaryotic initiation factor 4B (eIF4B) is thought to assist the eIF4F complex in translation initiation. In plants, eIF4B is known to interact with the poly-(A) binding protein, increasing its poly-(A) binding activity (1). Heat shock and serum starvation cause dephosphorylation of eIF4B at multiple sites with kinetics similar to those of the corresponding inhibition of translation, while phosphorylation of eIF4B following insulin treatment correlates well with an observed increase in translation (2-5). Multiple kinases, including p70 S6 kinase, can phosphorylate eIF4B <i>in vitro</i> , and at least one serum-inducible eIF4B phosphorylation site is sensitive to rapamycin and LY294002 (6). Recently, Ser406 was identified as a novel phosphorylation site regulated by mitogens (7), and the phosphorylation of this site is dependent on MEK and mTOR activity (7). This phosphorylation is shown to be essential for the translational activity of eIF4B (7).					
Background References	 Le, H. et al. (1997) J. Biol. Chem. 272, 16247-16255. Duncan, R.F. and Hershey, J.W. (1989) J. Cell Biol. 109, 1467-1481. Duncan, R.F. and Hershey, J.W. (1984) J. Biol. Chem. 259, 11882-11889. Duncan, R. and Hershey, J.W. (1985) J. Biol. Chem. 260, 5493-5497. Manzella, J.M. et al. (1991) J. Biol. Chem. 266, 2383-2389. Gingras, A.C. et al. (2001) Genes Dev. 15, 807-826. van Gorp, A.G. et al. (2009) Oncogene 28, 95-106. 					
Species Reactivity	Species reactivity is dete	rmined by testin	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot 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 Key	WB: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 					
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