#3691 Store at -20C

Phospho-eEF2k (Ser366) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H R Mk	Sensitivity: Endogenous	MW (kDa): 105	Source: Rabbit	UniProt ID: #O00418	Entrez-Gene Id: 29904	
Product Usage Information	Αŗ	Application			Dilution		
	We	estern Blotting		1:1000			
	Im	munoprecipitation		1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensit		Phospho-eEF2k (Ser366) Antibody detects endogenous levels of eEF2k only when phosphorylated at Ser366.					
Source / Purification	to r	•	,	•	th a synthetic phosphopo are purified by protein A		
Background	inhi It ca stre that p70	Eukaryotic elongation factor 2 kinase (eEF2k) phosphorylates and inactivates eEF2, resulting in the inhibition of peptide-chain elongation (1). eEF2k is normally dependent on Ca2+ ions and calmodulin (2,3). It can be activated by PKA in response to elevated cAMP levels (4-6), which are generally increased in stress- or starvation-related conditions. eEF2k can also be regulated in response to a wide range of stimuli that promote cell growth and protein synthesis. This involves the phosphorylation of eEF2k by p90RSK and p70 S6 kinase at Ser366 or by SAPK4/p38delta at Ser359, leading to the inactivation of eEF2k (7,8), which facilitates the dephosphorylation of eEF2, and thus promotes translation.					
2. Nairn, A.C. et al. (19 3. Palfrey, H.C. et al. (4. Redpath, N.T. et al. 5. Diggle, T.A. et al. (1 6. Hovland, R. et al. (1 7. Wang, X. et al. (200			(1997) Proc. Natl. Acad. Sci. USA 94, 4884-4889. 5) Proc. Natl. Acad. Sci. USA 82, 7839-7943. 187) J. Biol. Chem. 262, 9785-9792. 1993) Biochem. J. 293, 31-34. 18) Biochem. J. 336, 525-529. 199) FEBS Lett. 444, 97-101. 1				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western 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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