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Phospho-MEK1/2 (Ser217/221) (41G9) Rabbit mAb (Biotinylated)

	ctivity:Sensitivity:1 R MkEndogenous	MW (kDa): 45	Source/Isotype: Rabbit IgG	UniProt ID: #P36507, #Q02750	Entrez-Gene Id: 5605, 5604	
Product Usage Information	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100		
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibodies.				
Specificity / Sensitivity		Phospho-MEK1/2 (Ser217/221) (41G9) Rabbit mAb (Biotinylated) detects endogenous levels of MEK1/2 only when phosphorylated at Ser217/221.				
Species predicted to react based on 100% sequence homology:	Chicken					
Source / Purification	Monoclonal antibody is residues around Ser217		•	a synthetic phosphopeptid	e corresponding to	
Product Description	unconjugated antibody mouse, rat, monkey and	Phospho-MEK1/ D. melanogaste	2 (Ser217/221) (41G9) er phospho-MEK1/2 (S	o biotin under optimal com) Rabbit mAb #9154 reacts ser217/221). CST expects so recognize phospho-ME	s with human, that Phospho-	
MW (kDa)				45		
Background	mitogen activated prote MEK1 and MEK2 occur in the activation loop of growth factors and cytol active forms of MEK1/2 cells (4). MEK activates	MEK1 and MEK2, also called MAPK or Erk kinases, are dual-specificity protein kinases that function in a mitogen activated protein kinase cascade controlling cell growth and differentiation (1-3). Activation of MEK1 and MEK2 occurs through phosphorylation of two serine residues at positions 217 and 221, located in the activation loop of subdomain VIII, by Raf-like molecules. MEK1/2 is activated by a wide variety of growth factors and cytokines and also by membrane depolarization and calcium influx (1-4). Constitutively active forms of MEK1/2 are sufficient for the transformation of NIH/3T3 cells or the differentiation of PC-12 cells (4). MEK activates p44 and p42 MAP kinase by phosphorylating both threonine and tyrosine residues at sites located within the activation loop of kinase subdomain VIII.				
Background Reference	 S 1. Crews, C.M. et al. (19 2. Alessi, D.R. et al. (19 3. Rosen, L.B. et al. (19 4. Cowley, S. et al. (199 	94) EMBO J. 13 94) Neuron 12, 1	, 1610-19. 1207-21.			
Species Reactivity	Species reactivity is dete	rmined by testin	g in at least one appro	ved application (e.g., wes	tern blot).	
Western Blot Buffer	IMPORTANT: For wester 0.1% Tween® 20 at 4°C	,		d primary antibody in 5%	w/v BSA, 1X TBS,	
Applications Key Cross-Reactivity Key	WB: Western Blotting IF	e: Immunoprecip	itation			

1/1/24, 10:26 AM	 Phospho-MEK1/2 (Ser217/221) (41G9) Rabbit mAb (Biotinylated) (#3958) Datasheet Without Images Cell 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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