## #3958 Store at -20C

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



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

Applications: W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 45	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P36507, #Q02750	<b>Entrez-Gene Id:</b> 5605, 5604	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100		
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sens	sitivity	Phospho-MEK1/2 (Ser217/221) (41G9) Rabbit mAb (Biotinylated) detects endogenous levels of MEK1/2 only when phosphorylated at Ser217/221.					
Species predicte based on 100% homology		Chicken					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser217/221 of human MEK1/2.					
Description		This Cell Signaling Technology (CST) antibody is conjugated to biotin under optimal conditions. The unconjugated antibody Phospho-MEK1/2 (Ser217/221) (41G9) Rabbit mAb #9154 reacts with human, mouse, rat, monkey and <i>D. melanogaster</i> phospho-MEK1/2 (Ser217/221). CST expects that Phospho-MEK1/2 (Ser217/221) (41G9) Rabbit mAb (Biotinylated) will also recognize phospho-MEK1/2 (Ser217/221) in these species.					
Background		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 Re	ferences	1. Crews, C.M. et al. (1992) <i>Science</i> 258, 478-480. 2. Alessi, D.R. et al. (1994) <i>EMBO J.</i> 13, 1610-19. 3. Rosen, L.B. et al. (1994) <i>Neuron</i> 12, 1207-21. 4. Cowley, S. et al. (1994) <i>Cell</i> 77, 841-52.					
Species Reactiv	ity	Species reactivity is det	ermined by testin	g in at least one approv	ved application (e.g., w	estern blot).	
Western Blot Bu	uffer	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.				5% w/v BSA, 1X	
Applications Ke	y	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity	у Кеу	H: Human M: Mouse R: Rat Mk: Monkey					
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