338

## Phospho-MEK1/2 (Ser221) (166F8) Rabbit mAb



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<b>Applications:</b> W, IHC-P, FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 45	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P36507, #Q02750	<b>Entrez-Gene Id:</b> 5605, 5604		
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin) Flow Cytometry (Fixed/Permeabilized)			<b>Dilution</b> 1:2000 1:50 1:100			
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.					
		For a carrier-free (BSA and azide free) version of this product see product #75262.						
<b>Specificity/Sensitivity</b> Phospho-MEK1/2 (Ser 221) (166F8) Rabbit mAb detects endogenous levels of MEK1/2 only w phosphorylated at serine 221.				only when				
Species predict based on 100% homology		Dog						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser221 of human MEK1/2.						
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	vity	Species reactivity is de	termined by testing	g in at least one appro	ved application (e.g., w	estern blot).		
Western Blot B	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	ey	<b>W:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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