Revision 1							
Phospho-MEK1 (Ser298) (D1P9E) Rabbit mAb					Cell Signaling TECHNOLOGY® Orders: 877-616-CELL (2355)		
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Applications: WB, IP	Reactivity H M R	: Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit IgG	UniProt ID: #Q02750	Entrez-Gene Id: 5604	
Product Usage		Application			Dilution		
Information		Western Blotting			1:1000		
		Immunoprecipitation			1:50		
Storage		Supplied in 10 mM sodiu 0.02% sodium azide. Sto				vcerol and less than	
Specificity / Sensitivity		Phospho-MEK1 (Ser298) (D1P9E) Rabbit mAb recognizes endogenous levels of MEK1 protein only when phosphorylated at Ser298.					
Species predicted to react based on 100% sequence homology:		Dog, Pig					
Source / Purificatio		Monoclonal antibody is p residues surrounding Se		-	synthetic phosphope	eptide corresponding to	
Background		MEK1 and MEK2, also c mitogen activated proteir MEK1 and MEK2 occurs in the activation loop of s growth factors and cytok active forms of MEK1/2 a cells (4). MEK activates p at sites located within the MEK1 is phosphorylated Erk2 (5-7). MEK1 is also the p44/42 MAP kinase p	h kinase cascade through phosph ubdomain VIII, I ines and also by are sufficient for 044 and p42 MA activation loop at Ser298 by P/ phosphorylated	e controlling cell growth norylation of two serine r by Raf-like molecules. M r membrane depolarizati the transformation of NI P kinase by phosphoryla of kinase subdomain VI AK1, which facilitates sig	and differentiation (esidues at positions EK1/2 is activated I on and calcium influ H/3T3 cells or the d ating both threonine II. Inal transduction fro	1-3). Activation of 5 217 and 221, located by a wide variety of ux (1-4). Constitutively ifferentiation of PC-12 e and tyrosine residues m Raf to MEK1 and	
Background Refere		1. Crews, C.M. et al. (199 2. Alessi, D.R. et al. (199 3. Rosen, L.B. et al. (199 4. Cowley, S. et al. (1994 5. Xu Be et al. (2001) <i>J E</i> 6. Coles, L.C. and Shaw, 7. Eblen, S.T. et al. (2002 8. Sharma, P. et al. (2002	 4) EMBO J. 13, 4) Neuron 12, 1 4) Cell 77, 841-5 8iol Chem 276, 2 P.E. (2002) One 2) Mol Cell Biol 2 	1610-19. 207-21. 2. 26509-15. <i>cogene</i> 21, 2236-44. 22, 6023-33.			

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

Patents

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