e at -20C	MEK1/2 (D1A5) Rabbit mAb	T C	Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#	3 Trask La	ne Danvers	Massachusetts 01923 USA		

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

Applications: WB, IF-IC, FC-FP	Reactivity: H M R Mk Dm	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit IgG	UniProt ID: #P36507, #Q02750	Entrez-Gene Id: 5605, 5604		
Product Usage Information	Арр	Application			Dilution			
mormation	Wes	stern Blotting			1:100	0		
		Immunofluorescence (Immunocytochemistry)			1:50 - 1:200			
	Flov	v Cytometry (Fixed	d/Permeabilized)		1:200	- 1:800		
Storage				7.5), 150 mM NaCl, 10 not aliquot the antibo	00 μg/ml BSA, 50% glycerol and less than dy.			
	For a	a carrier free (BSA	and azide free) v	ersion of this product s	see product #71131.			
Specificity / Sensiti		MEK1/2 (D1A5) Rabbit mAb recognizes endogenous levels of total MEK1 and MEK2 proteins. This antibody is predicted to cross-react with MEK1/MEK2 orthologs in a variety of species.						
Species predicted t react based on 100 sequence homolog	%	Hamster, Xenopus, Zebrafish, Bovine, Dog, Pig, C. elegans						
Source / Purificatio		oclonal antibody is ues surrounding A			a synthetic peptide corresp	ponding to		
Background	mitog MEK in the grow active cells	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 Refere	2. Ale 3. Ro	 Crews, C.M. et al. (1992) <i>Science</i> 258, 478-480. Alessi, D.R. et al. (1994) <i>EMBO J.</i> 13, 1610-19. Rosen, L.B. et al. (1994) <i>Neuron</i> 12, 1207-21. Cowley, S. et al. (1994) <i>Cell</i> 77, 841-52. 						
Species Reactivity	Speci	es reactivity is dete	ermined by testing	g in at least one appro	ved application (e.g., west	ern blot).		
Western Blot Buffe		RTANT: For weste LX TBS, 0.1% Twe		ed primary antibody in 5% w/v nonfat dry rnight.				
Applications Key		WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity Ke	X: Xe	 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 						

Trademarks and Patents

Limited Uses

MEK1/2 (D1A5) Rabbit mAb (#8727) Datasheet Without Images Cell Signaling Technology

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