Phospho-MEK1 (Thr286) Antibody Image: Cell Signaling Technology Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane Danvers Massachusetts 01923 USA

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

Applications: WB, IP, IF-IC, FC-FP	Reactivity: H R Mk	Sensitivity: Endogenous	MW (kDa): 45	Source: Rabbit	UniProt ID: #Q02750	Entrez-Gene Id: 5604
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (II Flow Cytometry (Fixed/	2	ry)		Dilution 1:1000 1:50 1:100 1:50
Storage	2	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. Phospho-MEK1 (Thr286) Antibody detects endogenous levels of MEK1 phosphorylated at threonine 286.				
Specificity / Sensiti Species predicted t react based on 100 sequence homolog	to №	nuspilo-MERI (111286 his antibody does not c				u at threonne 200.
Source / Purificatio	to	-		-	h a synthetic phosphope e purified by protein A a	
Background	m M ir g a c c a E E	hitogen activated protein MEK1 and MEK2 occurs in the activation loop of s rowth factors and cytok active forms of MEK1/2 a ells (4). MEK activates it sites located within the MEK1 is phosphorylated	n kinase cascade c s through phosphor subdomain VIII, by ines and also by m are sufficient for the p44 and p42 MAP e activation loop of at Ser298 by PAK phosphorylated by	ontrolling cell grow ylation of two serine Raf-like molecules. embrane depolariz e transformation of kinase by phosphor kinase subdomain 1, which facilitates	pecificity protein kinase th and differentiation (1- e residues at positions 2 MEK1/2 is activated by ation and calcium influx NIH/3T3 cells or the diffi- ylating both threonine a VIII. signal transduction from mitotic cells, causing ne	3). Activation of 17 and 221, located a wide variety of (1-4). Constitutively erentiation of PC-12 and tyrosine residues Raf to MEK1 and
Background Refere	2 3 4 5 6 7	. Crews, C.M. et al. (19 . Alessi, D.R. et al. (199 . Rosen, L.B. et al. (199 . Cowley, S. et al. (1994 . Xu, B. et al. (1999) J. . Coles, L.C. and Shaw . Eblen, S. T. et al. (2002) . Sharma, P. et al. (2002)	 A) EMBO J. 13, 16 A) Neuron 12, 120 A) Cell 77, 841-52. Biol. Chem. 274, 34 P.E. (2002) Oncog A) Mol. Cell. Biol. 2 	10-19. 7-21. 4029-34035. <i>yene</i> 21, 2236-2244 2, 6023-6033.	l.	
Species Reactivity	Sp	pecies reactivity is deter	rmined by testing ir	at least one appro	ved application (e.g., we	estern blot).
Western Blot Buffe		IPORTANT: For westerr 1% Tween® 20 at 4°C v			d primary antibody in 59	% w/v BSA, 1X TBS,
Applications Key						

3/23/24, 1:31 PM	Phospho-MEK1 (Thr286) Antibody (#9127) Datasheet Without Images Cell Signaling Technology WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
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 GP: Guinea Pig Rab: rabbit All: all species expected
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