Phospho-DUSP1/MKP1 (Ser359) (125E2) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #P28562	Entrez-Gene Id: 1843	
Product Usage Information	Ар	plication			Dilution		
	We	stern Blotting			1:1000		
	Imr	nunoprecipitation			1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitiv		Phospho-DUSP1/MKP1 (Ser359) (125E2) Rabbit mAb detects endogenous levels of DUSP1 only when phosphorylated at serine 359.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser359 of human DUSP1.					
Background	subs DUS spec tight Sec	MAP kinases are inactivated by a family of dual-specificity protein phosphatases (DUSP) that differ in their substrate specificity, tissue distribution, inducibility by extracellular stimuli and cellular localization. DUSP1/MKP1 (MAP Kinase phosphatase 1) is primarily localized in the nucleus, and has broad substrate specificity towards p44/42 MAPK, p38 MAPK and SAPK/JNK (1-3). DUSP1's transcription and activity are tightly regulated. First, DUSP1 is transcriptionally induced through p44/42 MAPK, p53 and Jak2 (2,4,5). Second, DUSP1 is phosphorylated by p44/42 MAPK at Ser359 and Ser364 in its carboxy-terminal region, which inhibits DUSP1 degradation through the ubiquitin pathway (6).					
Background Refere	2. B 3. Fi 4. Li 5. S	 Sun, H. et al. (1993) Cell 75, 487-93. Brondello, J.M. et al. (1997) J Biol Chem 272, 1368-76. Franklin, C.C. and Kraft, A.S. (1997) J Biol Chem 272, 16917-23. Li, M. et al. (2003) J Biol Chem 278, 41059-68. Sandberg, E.M. et al. (2004) J Biol Chem 279, 1956-67. Brondello, J.M. et al. (1999) Science 286, 2514-7. 					

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

GP: Guinea Pig Rab: rabbit All: all species expected

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