#2857 sto

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



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #P28562	Entrez-Gene Id: 1843	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 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/Sensitivity		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		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 carboxyterminal region, which inhibits DUSP1 degradation through the ubiquitin pathway (6).					
Background References		 Sun, H. et al. (1993) <i>Cell</i> 75, 487-93. Brondello, J.M. et al. (1997) <i>J Biol Chem</i> 272, 1368-76. Franklin, C.C. and Kraft, A.S. (1997) <i>J Biol Chem</i> 272, 16917-23. Li, M. et al. (2003) <i>J Biol Chem</i> 278, 41059-68. Sandberg, E.M. et al. (2004) <i>J Biol Chem</i> 279, 1956-67. Brondello, J.M. et al. (1999) <i>Science</i> 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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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