p38a MAPK (5F11) Mouse mAb



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Mouse IgG2b	UniProt ID: #Q16539	Entrez-Gene Id: 1432
Product Usage Information		Application Western Blotting			Dilution 1:2000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		p38 α MAP Kinase (5F11) Mouse mAb detects endogenous levels of p38 α MAPK. This antibody does not cross-react with either JNK/SAPK or p42/44 MAPK or other isoforms of p38.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant p38 MAPK fusion protein.				
Background		kinase that participate 4). Four isoforms of po- have been identified. stresses, including osi growth factors (1-5). N Tyr182. Activated p38 phosphorylate the tra fluorophenyl)-2-(4-me This compound inhibi HSP27 (9). SB203580 i	es in a signaling cas 38 MAPK, p38α, β, γ Similar to the SAPK, motic shock, inflam MKK3, MKK6, and SE MAPK has been sho nscription factors A thylsulfinylphenyl)- ts the activation of nhibits p38 MAPK c	or CSBP (2), is the mam cade controlling cellular (also known as Erk6 or (JNK pathway, p38 MAPK matory cytokines, lipopo K activate p38 MAPK by own to phosphorylate ar TF-2 (5), Max (6), and ME 5-(4-pyridyl)-imidazole) i MAPKAPK-2 by p38 MAP atalytic activity by bindir by upstream kinases (10	responses to cytol SAPK3), and δ (also (is activated by a v. olysaccharide (LPS), phosphorylation a nd activate MAPKAF (F2 (5-8). SB203580 s a selective inhibit K and subsequent ng to the ATP-bindii	kines and stress (1- known as SAPK4) ariety of cellular UV light, and thr180 and kinase 2 (3) and to (4-(4- or of p38 MAPK. phosphorylation of
Background References		 Rouse, J. et al. (1994) Cell 78, 1027-37. Han, J. et al. (1994) Science 265, 808-11. Lee, J.C. et al. (1994) Nature 372, 739-46. Freshney, N.W. et al. (1994) Cell 78, 1039-49. Raingeaud, J. et al. (1995) J Biol Chem 270, 7420-6. Zervos, A.S. et al. (1995) Proc Natl Acad Sci U S A 92, 10531-4. Zhao, M. et al. (1999) Mol Cell Biol 19, 21-30. Yang, S.H. et al. (1999) Mol Cell Biol 19, 4028-38. Cuenda, A. et al. (1995) FEBS Lett 364, 229-33. Kumar, S. et al. (1999) Biochem Biophys Res Commun 263, 825-31. 				

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

W: Western Blotting

Cross-Reactivity Key

Applications Key

H: Human M: Mouse R: Rat

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