Revision 3		
Phospho-p38 MAPK (Thr180/Tyr182) (3D7) Rabbit mAb	C T	ell Signaling
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com
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Applications:Reactivity:W, IF-IC, FC-FPH M R Mk Dm Pg Sc	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit IgG	UniProt ID: #Q16539, #O15264, #P53778, #Q15759	Entrez-Gene Id: 1432, 5603, 6300 5600
Product Usage Information	Application Western Blotting Immunofluorescence Flow Cytometry (Fixe		istry)		Dilution 1:1000 1:100 1:25
Storage			i), 150 mM NaCl, 100 μ ot aliquot the antibod	g/ml BSA, 50% glycero y.	l and less than
Specificity/Sensitivity		osphorylated at Thr1	80 and Tyr182. This ar	tects endogenous leve tibody does not cross-	
Species predicted to react based on 100% sequence homology	Hamster, Mink, Zebra	ifish, Bovine			
Source / Purification			nunizing animals with a hr180/Tyr182 of huma	a synthetic phosphope an p38 MAPK.	ptide
Background	kinase that participal 4). Four isoforms of p have been identified, stresses, including or growth factors (1-5). Tyr182. Activated p38 phosphorylate the tr. fluorophenyl)-2-(4-m This compound inhib HSP27 (9). SB203580	tes in a signaling cas b38 MAPK, p38α, β, γ Similar to the SAPK smotic shock, inflam MKK3, MKK6, and SB 3 MAPK has been sh anscription factors A ethylsulfinylphenyl)- bits the activation of inhibits p38 MAPK c	cade controlling cellul (also known as Erk6 c (JNK pathway, p38 MA) matory cytokines, lipo EK activate p38 MAPK t own to phosphorylate TF-2 (5), Max (6), and N 5-(4-pyridyl)-imidazole MAPKAPK-2 by p38 MA	Immalian orthologue of ar responses to cytokir r SAPK3), and δ (also k PK is activated by a var polysaccharide (LPS), L by phosphorylation at T and activate MAPKAP I MEF2 (5-8). SB203580 (4) is a selective inhibitor NPK and subsequent pf ling to the ATP-binding 10).	nes and stress (1- nown as SAPK4) iety of cellular IV light, and Thr180 and cinase 2 (3) and to I-(4- of p38 MAPK. nosphorylation of
Background References	7. Zhao, M. et al. (199 8. Yang, S.H. et al. (19 9. Cuenda, A. et al. (1	Science 265, 808-11 4) Nature 372, 739-4 1. (1994) Cell78, 103 (1995) J Biol Chem 2 1995) Proc Natl Acaco 99) Mol Cell Biol 19, 2 999) Mol Cell Biol 19, 995) FEBS Lett 364, 2	5. 9-49. 70, 7420-6. / <i>Sci U S A</i> 92, 10531-4. 11-30. 4028-38.		
Species Reactivity	Species reactivity is d	letermined by testin	g in at least one appro	ved application (e.g., w	vestern blot).
Western Blot Buffer	IMPORTANT: For wes TBS, 0.1% Tween® 20			d primary antibody in	5% w/v BSA, 1X
Applications Key	W: Western Blotting (Fixed/Permeabilized		scence (Immunocytoc	hemistry) FC-FP: Flow (Cytometry
Cross-Reactivity Key	H: Human M: Mouse	R: Rat Mk: Monkey	Dm: D. melanogaster l	Pg: Pig Sc: S. cerevisiae	

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