## Store at -200

## p38δ MAPK (10A8) Rabbit mAb



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<b>Applications:</b> WB, IP	Reactivity: H R	Sensitivity: Endogenous	<b>MW (kDa):</b> 43	Source/Isotype: Rabbit IgG	UniProt ID: #O15264	Entrez-Gene Id 5603	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imr	nunoprecipitation		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less tha 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
p38δ MAP Kinase (10A8) Rabbit mAb d antibody does not cross-react with other			etects endogenous levels of total p38δ MAP kinase protein. This isoforms of p38 MAPK.				
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues around the carboxy terminus of p38 $\delta$ MAPK.					
Background	kina Fou have	p38 MAP kinase (MAPK), also called RK (1) or CSBP (2), is the mammalian orthologue of the yeast HOG kinase that participates in a signaling cascade controlling cellular responses to cytokines and stress (1-4). Four isoforms of p38 MAPK, p38 $\alpha$ , $\beta$ , $\gamma$ (also known as Erk6 or SAPK3), and $\delta$ (also known as SAPK4) have been identified. Similar to the SAPK/JNK pathway, p38 MAPK is activated by a variety of cellular stresses, including osmotic shock, inflammatory cytokines, lipopolysaccharide (LPS), UV light, and growth					

factors (1-5). MKK3, MKK6, and SEK activate p38 MAPK by phosphorylation at Thr180 and Tyr182. Activated p38 MAPK has been shown to phosphorylate and activate MAPKAP kinase 2 (3) and to phosphorylate the transcription factors ATF-2 (5), Max (6), and MEF2 (5-8). SB203580 (4-(4fluorophenyl)-2-(4-methylsulfinylphenyl)-5-(4-pyridyl)-imidazole) is a selective inhibitor of p38 MAPK. This compound inhibits the activation of MAPKAPK-2 by p38 MAPK and subsequent phosphorylation of HSP27 (9). SB203580 inhibits p38 MAPK catalytic activity by binding to the ATP-binding pocket, but does not inhibit phosphorylation of p38 MAPK by upstream kinases (10).

## **Background References**

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- 2. Han, J. et al. (1994) Science 265, 808-11.
- 3. Lee, J.C. et al. (1994) Nature 372, 739-46.
- 4. Freshnev. N.W. et al. (1994) Cell 78, 1039-49.
- 5. Raingeaud, J. et al. (1995) J Biol Chem 270, 7420-6.
- 6. Zervos, A.S. et al. (1995) Proc Natl Acad Sci U S A 92, 10531-4.
- 7. Zhao, M. et al. (1999) Mol Cell Biol 19, 21-30.
- 8. Yang, S.H. et al. (1999) Mol Cell Biol 19, 4028-38.
- 9. Cuenda, A. et al. (1995) FEBS Lett 364, 229-33.
- 10. 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 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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