Store at -200

p38 MAPK (D13E1) XP® Rabbit



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P, IF-IC, FC-	H M R Hm Mk B	Endogenous	4 0 ′	Rabbit IgG	#Q16539, #P53778,	1432, 6300, 5600
FP	Pg				#Q15759	

Product Usage	Application		
Information	Western Blotting	1:1000	
	Immunohistochemistry (Paraffin)	1:400	
	Immunofluorescence (Immunocytochemistry)	1:200	
	Flow Cytometry (Fixed/Permeabilized)	1:800	

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than Storage

0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #54470.

p38 MAPK (D13E1) XP® Rabbit mAb recognizes endogenous levels of total p38α, β, or y MAPK protein. Specificity / Sensitivity

This antibody does not recognize p38δ, SAPK/JNK, or p44/42 MAPK proteins.

Species predicted to react based on 100% sequence homology

Chicken

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human p38 protein.

Background

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 α , β , γ (also known as Erk6 or SAPK3), and δ (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

Background References

- 1. Rouse, J. et al. (1994) Cell 78, 1027-37.
- 2. Han, J. et al. (1994) Science 265, 808-11.
- 3. Lee, J.C. et al. (1994) Nature 372, 739-46.
- 4. Freshney, 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.

inhibit phosphorylation of p38 MAPK by upstream kinases (10).

- 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).

4/12/24. 10:35 AM

p38 MAPK (D13E1) XP® Rabbit mAb (#8690) Datasheet Without Images Cell Signaling Technology

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 IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

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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