e at -20C	p38α MAPK (7D6) Rabbit mAb		Cell Signaling TECHNOLOGY®		
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Eor Research Lise Only	Not for Use in	Diagnostic Procedures
FOR Research Use Unit	y. NOUTOF USE IN	Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #Q16539	Entrez-Gene Id: 1432	
Product Usage Information		plication stern Blotting		Dilution 1:1000			
Storage			dium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than Store at –20°C. Do not aliguot the antibody.				
Specificity / Sensitivity		p38α MAP Kinase (7D6) Rabbit mAb detects endogenous levels of total p38α MAPK protein. This antibody does not cross-react with other p38 MAPK isoforms such as β , γ or δ .					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human p38 α MAPK.					
Background	kina Four have stres facto Activ phos fluor com (9).	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-(4-fluorophenyl)-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 Refere	2. Ha 3. Le 4. Fr 5. Ra 6. Ze 7. Zf 8. Ya 9. Co	nao, M. et al. (1999) ang, S.H. et al. (199 uenda, A. et al. (199	Science 265, 808) Nature 372, 739 (1994) Cell 78, 1 1995) J Biol Chel 195) Proc Natl Ac Mol Cell Biol 19 9) Mol Cell Biol 2 95) FEBS Lett 36	-11. 9-46. 1039-49. <i>m</i> 270, 7420-6. <i>cad Sci U S A</i> 92, 10531 9, 21-30. 19, 4028-38.			
Species Reactivity	Spec	ies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffe				blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, th gentle shaking, overnight.			
Applications Key		Western Blotting					
Cross-Reactivity Key		enopus Z: zebrafish	R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster fish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse : rabbit All: all species expected				
Trademarks and Patents	All ot		gy is a trademark of Cell Signaling Technology, Inc. the property of their respective owners. Visit cellsignal.com/trademarks for more				

p38α MAPK (7D6) Rabbit mAb (#2371) Datasheet Without Images Cell Signaling Technology

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