

## Product datasheet for **TA392578**

### **p38 (MAPK14) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1:5000~1:10000 IF: 1:50~1:200
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to Human p38 MAPK.
Specificity:	p38 MAPK (Ab-180) polyclonal antibody detects endogenous levels of p38 MAPK protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 41 kDa
Gene Name:	mitogen-activated protein kinase 14
Database Link:	<a href="#">Entrez Gene 1432 Human Q16539</a>



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**Background:**

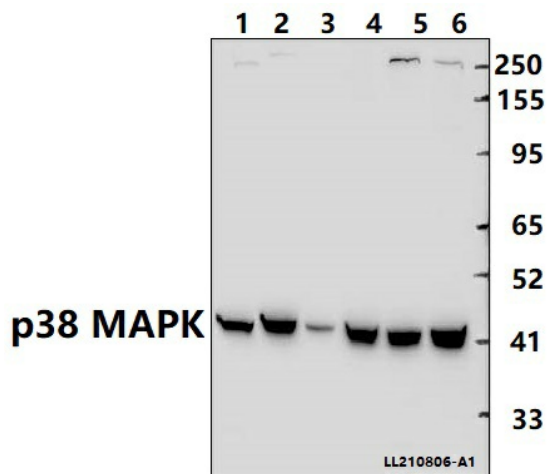
p38 MAP kinase (MAPK), also called RK or CSBP, is the mammalian orthologue of the yeast HOG kinase that participates in a signaling cascade controlling cellular responses to cytokines and stress. Four isoforms of p38 MAPK, p38 $\alpha$ ,  $\beta$ ,  $\gamma$  (also known as Erk6 or SAPK3), and  $\delta$  (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. 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 and to phosphorylate the transcription factors ATF-2, Max, and MEF2. 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. SB203580 inhibits p38 MAPK catalytic activity by binding to the ATP-binding pocket, but does not inhibit phosphorylation of p38 MAPK by upstream kinases.

**Synonyms:**

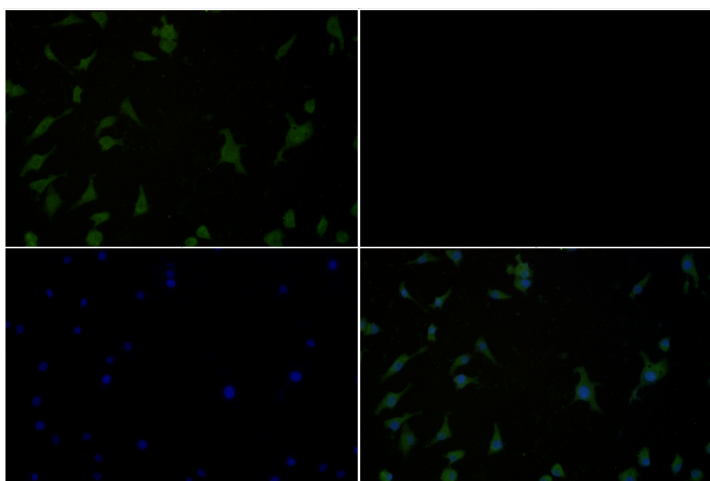
MAPK 11; MAP kinase 11; MAP kinase p38 beta; Mitogen-activated protein kinase 11; Mitogen-activated protein kinase p38 beta; p38-2; p38b; SAPK2b; Stress-activated protein kinase 2b

**Note:**

For research use only, not for use in diagnostic procedure.

**Product images:**

Western blot (WB) analysis of p38 MAPK (Ab-180) polyclonal antibody at 1:5000 dilution  
Lane1:C6 whole cell lysate(40ug) Lane2:AML-12 whole cell lysate(40ug) Lane3:The Heart tissue lysate of Rat(40ug) Lane4:H1792 whole cell lysate(40ug) Lane5:MCF-7 whole cell lysate(40ug) Lane6:Hela whole cell lysate(40ug)



Immunofluorescence analysis of PC3 cells using p38 MAPK antibody at dilution of 1:50.