

## Product datasheet for **TA378303**

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

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ICC/IF, IHC, IP, WB
<b>Recommended Dilution:</b>	WB,1:500 - 1:1000 IHC,1:50 - 1:200 IF,1:50 - 1:100 IP,1:50 - 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Modifications:</b>	Unmodified
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	A synthetic peptide corresponding to a sequence within amino acids 300 to the C-terminus of human p38 MAPK (NP_620581.1).
<b>Formulation:</b>	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity purification
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C. Avoid freeze / thaw cycles.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Predicted Protein Size:</b>	29kDa/34kDa/35kDa/41kDa
<b>Gene Name:</b>	mitogen-activated protein kinase 14
<b>Database Link:</b>	<a href="#">Entrez Gene 1432 Human</a> <a href="#">Q16539</a>



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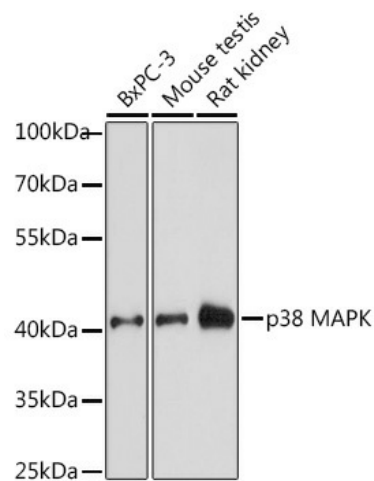
**Background:**

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEK2, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

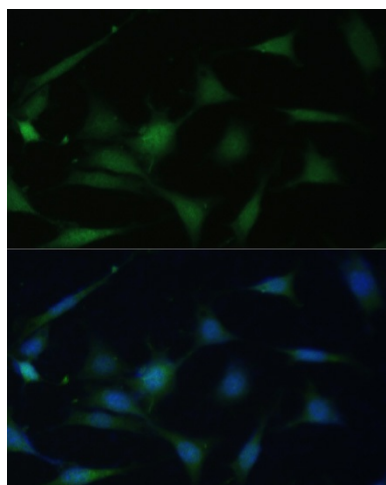
**Synonyms:**

CSBP; CSBP1; CSBP2; CSPB1; EXIP; Mxi2; p38; p38ALPHA; PRKM14; PRKM15; RK; SAPK2A

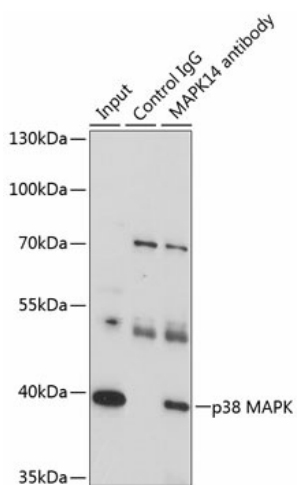
**Product images:**



Western blot analysis of extracts of various cell lines, using p38 MAPK antibody (TA378303) at 1:1000 dilution. |Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. |Lysates/proteins: 25ug per lane. |Blocking buffer: 3% nonfat dry milk in TBST. |Detection: ECL Enhanced Kit . |Exposure time: 30s.



Immunofluorescence analysis of NIH-3T3 cells using p38 MAPK antibody (TA378303) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of U-87MG cells, using 3 ug p38 MAPK antibody (TA378303). Western blot was performed from the immunoprecipitate using p38 MAPK antibody (TA378303) at a dilution of 1:1000.