

OriGene Technologies, Inc.

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Product datasheet for TA378307

p38 (MAPK14) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	WB,1:500 - 1:2000 IF,1:50 - 1:200
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho T180/Y182
Host:	Rabbit
lsotype:	lgG
Clonality:	Polyclonal
Immunogen:	A synthetic phosphorylated peptide around T180 & Y182 of human p38 MAPK (NP_620581.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	29kDa/34kDa/35kDa/41kDa
Gene Name:	mitogen-activated protein kinase 14
Database Link:	<u>Entrez Gene 1432 Human</u> <u>Q15759</u>



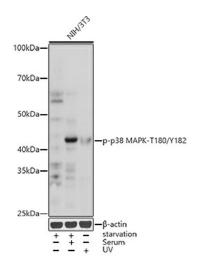
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GRIGENE p38 (MAPK14) Rabbit Polyclonal Antibody – TA378307

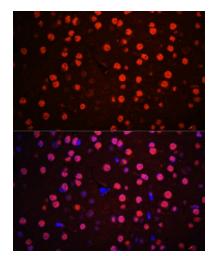
Background: The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This 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, MEF2C, 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 NIH/3T3 cells, using Phospho-p38 MAPK-T180/Y182 antibody (TA378307) at 1:1000 dilution.NIH/3T3 cells were treated by 10% FBS at 37°C for 30 minutes after serum-starvation overnight.NIH/3T3 cells were treated by UV at room temperature for 15-30 minutes. |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 Basic Kit . |Exposure time: 10s.



Immunofluorescence analysis of mouse brain using Phospho-p38 MAPK-T180/Y182 antibody (TA378307) at dilution of 1:100. Blue: DAPI for nuclear staining.

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