Recombinant Phospho-p38 MAPK (Thr180, Tyr182) Monoclonal Antibody

catalog number: AN302090L

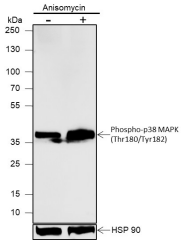
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Rat;Mouse
Immunogen	phosphorylated human p38 MAPK (Thr180/Tyr182) peptide
Host	Rabbit
Isotype	IgG, κ
Clone	A814
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:500-1:2000

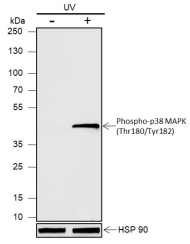
Data



Western Blot with Phospho-p38 MAPK (Thr180, Tyr182) Monoclonal Antibody at dilution of 1:2000. (-): Jurkat; (+): Jurkat+Anisomycin (25ug/mL, 30min)

Observed-MW:43 kDa

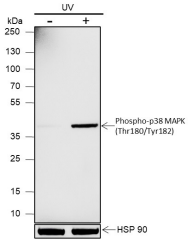
Calculated-MW:42 kDa



Western Blot with Phospho-p38 MAPK (Thr180, Tyr182) Monoclonal Antibody at dilution of 1:2000. (-): EL4.IL-2; (+): EL4.IL-2+UV (100 mJ/cm2,2hr, recoveray 2hr)

Observed-MW:43 kDa

Calculated-MW:42 kDa



Western Blot with Phospho-p38 MAPK (Thr180, Tyr182) Monoclonal Antibody at dilution of 1:2000. (-): PC-12; (+): PC-12+UV (60 J/M2, 60min)

Observed-MW:43 kDa

Calculated-MW:42 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Toll-free: 1-888-852-8623
Web: www.elabscience.com
Tel: 1-832-243-6086
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Fax: 1-832-243-6017

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, p38α, 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. 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 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.

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