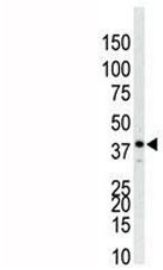
p38 Antibody / MAPK14 (F50496)

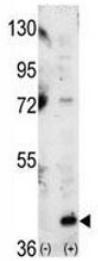
Catalog No.	Formulation	Size
F50496-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50496-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

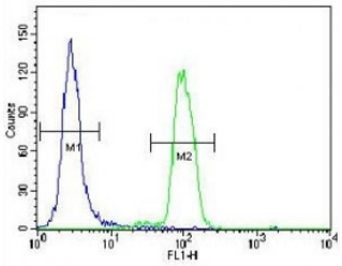
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q16539
Applications	Western Blot : 1:1000 Flow Cytometry : 1:10-1:50 Immunofluorescence : 1:10-1:50
Limitations	This p38 antibody is available for research use only.



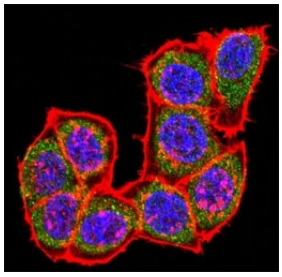
p38 antibody used in western blot to detect p38 in Jurkat cell lysate



Western blot analysis of p38 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MAPK14 gene (2).



p38 antibody flow cytometric analysis of HeLa cells (right histogram) compared to a negative control (left histogram). FITC-conjugated goat-rabbit secondary Ab was used for the analysis.



Confocal immunofluorescent analysis of p38 antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (blue).

Description

P38 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.

Application Notes

Titration of the p38 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 295-324 from the human protein was used as the immunogen for this p38 antibody.

Storage

Aliquot the p38 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.