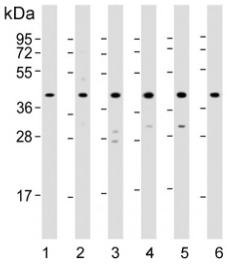
p38 MAPK Antibody / MAPK14 (F54913)

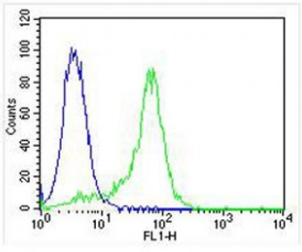
Catalog No.	Formulation	Size
F54913-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54913-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q16539
Applications	Western blot: 1:1000-1:2000 Flow cytometry: 1:25 (1x10e6 cells)
Limitations	This p38 MAPK antibody is available for research use only.



Western blot testing of 1) human HepG2, 2) human HeLa, 3) rat PC-12, 4) human Jurkat, 5) human MCF7 and 6) mouse kidney lysate with p38 MAPK antibody. Expected molecular weight: 38-41 kDa.



Flow cytometry testing of fixed and permeabilized human HeLa cells with p38 MAPK antibody; Blue=isotype control, Green= p38 MAPK antibody.

Description

MAPK14 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

The stated application concentrations are suggested starting points. Titration of the p38 MAPK antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 301-330 from the human protein was used as the immunogen for the p38 MAPK antibody.

Storage

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

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