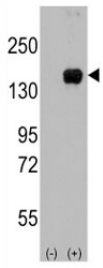
ASK1 Antibody (F50881)

Catalog No.	Formulation	Size
F50881-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50881-0.08ML	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	Q99683
Applications	Western Blot : 1:1000
Limitations	This ASK1 antibody is available for research use only.



Western blot analysis of ASK1 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MAP3K5 gene (2).

Description

Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. ASK1/MAPKKK5/MAP3K5 contains 1,374 amino acids with all 11 kinase subdomains. Northern blot analysis shows

that transcript is abundantly expressed in human heart and pancreas. The MAP3K5 protein phosphorylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kinase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 cells; MAP3K5 does not activate MAPK/ERK.

Application Notes

Titration of the ASK1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 944-973 from the human protein was used as the immunogen for this ASK1 antibody.

Storage

Aliquot the ASK1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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