Product Datasheet

MAP3K5 antibody

Catalog No: #38125

Package Size: #38125-1 50ul #38125-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

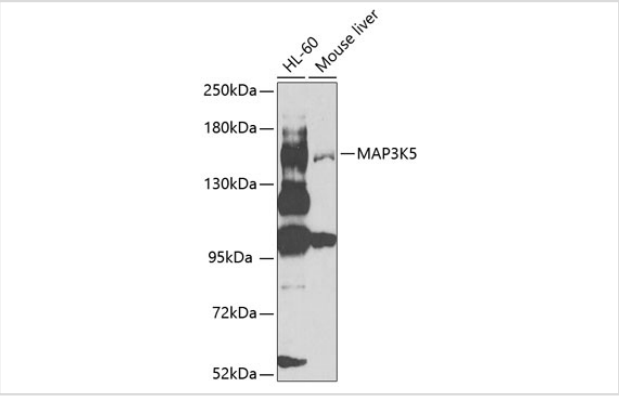
Description

Product Name	MAP3K5 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB
Species Reactivity	Human,Mouse
Specificity	The antibody detects endogenous level of total MAP3K5 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human MAP3K5.
Target Name	MAP3K5
Other Names	MAP3K5;ASK1;MAPKKK5;MEKK5;
Accession No.	Swiss-Prot#: Q99683NCBI Gene ID: 4217
Uniprot	Q99683
GeneID	4217;
SDS-PAGE MW	155kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

WB□1:500 - 1:2000

Images



Western blot analysis of extracts of various cell lines, using MAP3K5 at 1:1000 dilution.

Background

Apoptosis signal-regulating kinase 1 (MAP3K5), a MAP kinase kinase kinase, plays essential roles in stress-induced apoptosis (1,2). MAP3K5 is activated in response to a variety of stress-related stimuli through distinct mechanisms and activates MKK4 and MKK3, which in turn activate JNK and p38 (3). Overexpression of MAP3K5 activates JNK and p38 and induces apoptosis in several cell types through signals involving the mitochondrial cell death pathway. Embryonic fibroblasts or primary neurons derived from MAP3K5-/- mice are resistant to stress-induced JNK and p38 activation and cell death (4,5). Phosphorylation at Ser967 is essential for MAP3K5 association with 14-3-3 protein and suppression of cell death (6). Oxidative stress induces dephosphorylation of Ser967 and phosphorylation of Thr845 in the activation loop of MAP3K5, and both are correlated with MAP3K5 activity and MAP3K5-dependent apoptosis (7,8). On the other hand, Akt phosphorylates MAP3K5 at Ser83, which attenuates MAP3K5 activity and promotes cell survival (9).

Note: This product is for in vitro research use only