Product Name: KD-Validated MAPK14 Rabbit Polyclonal Antibody
Catalog #: KVAb00445
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit pAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500
Molecular Weight	Calculated MW: 41.3kDa

Antigen Information

Gene Name	MAPK14
Alternative Names	MAPK14; Mitogen-Activated Protein Kinase 14; PRKM14; PRKM15; CSBP1; CSBP2; CSPB1; Mxi2; P38; Mitogen-Activated Protein Kinase P38 Alpha; MAX-Interacting Protein 2; CSAID-Binding Protein; MAP Kinase P38 Alpha; P38 MAP Kinase; MAP Kinase 14; EC 2.7.11.24; SAPK2A; CSBP; Cytokine Suppressive Anti-Inflammatory Drug Binding Protein; Cytokine Suppressive Anti-Inflammatory Drug-Binding Protein; P38 Mitogen Activated Protein Kinase; Stress-Activated Protein Kinase 2A; Stress-Activated Protein Kinase 2a; MAP Kinase Mxi2; MAP Kinase MXI2; P38alpha Exip; EC 2.7.11; P38ALPHA; MAPK 14; SAPK2a; EXIP; MXI2; RK
Gene ID	1432.0
SwissProt ID	Q16539

Immunogen A synthesized peptide derived from human p38

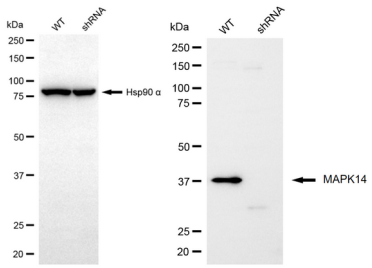
Background

The protein encoded by this gene 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. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

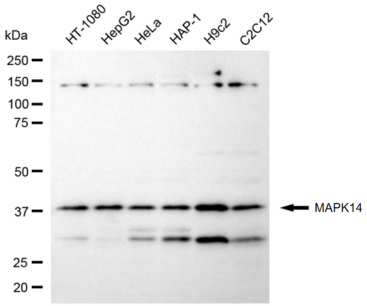
Research Area

Signal Transduction,Cancer,Immunology,Kits/ Lysates/ Other

Image Data



Western blotting analysis using MAPK14 antibody (KVAb00445). MAPK14 expression in wild-type (WT) and MAPK14 shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MAPK14 antibody (KVAb00445, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using MAPK14 antibody (KVAb00445). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MAPK14 antibody (KVAb00445, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.