

Product Name: KD-Validated MAP2K2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01410

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 44.4kDa

Antigen Information

Gene Name	MAP2K2
Alternative Names	MAP2K2; Mitogen-Activated Protein Kinase Kinase 2; MEK2; MAP Kinase Kinase 2; PRKMK2; MKK2; Dual Specificity Mitogen-Activated Protein Kinase Kinase 2; ERK Activator Kinase 2; MAPK/ERK Kinase 2; EC 2.7.12.2; Mitogen-Activated Protein Kinase Kinase 2, P45; MAPKK 2; MAPKK2; MEK 2; CFC4
Gene ID	5605.0
SwissProt ID	P36507
Immunogen	A synthesized peptide derived from human MEK2

Background

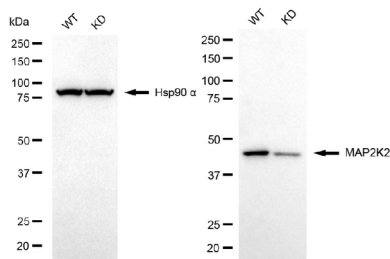
The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is

known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, cognitive disability, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene. [provided by RefSeq, Jul 2008]

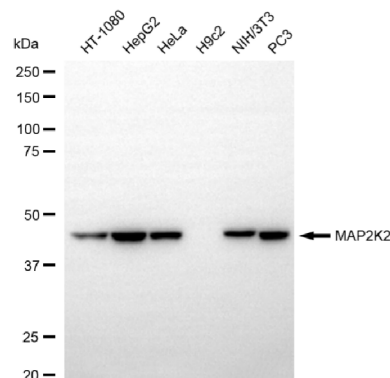
Research Area

Signal Transduction,Cancer

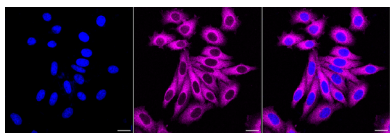
Image Data



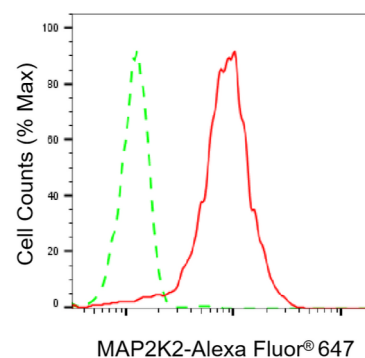
Western blotting analysis using MAP2K2 antibody (KVAb01410). MAP2K2 expression in wild-type (WT) and MAP2K2 knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MAP2K2 antibody (KVAb01410, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using MAP2K2 antibody (KVAb01410). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MAP2K2 antibody (KVAb01410, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with MAP2K2 antibody (KVAb01410, 1:1,000). Nuclei were stained blue with DAPI; MAP2K2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of MAP2K2 expression in HepG2 cells using MAP2K2 antibody (KVAb01410, 1:2,000). Green, isotype control; red, MAP2K2.

