
Product Name: KD-Validated MAPK Activated Protein Kinase 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01508

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
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: 45.6kDa

Antigen Information

Gene Name	MAPKAPK2 MAPKAPK2; MAPK Activated Protein Kinase 2; MK2; Mitogen-Activated Protein Kinase-
Alternative Names	Activated Protein Kinase 2; MAP Kinase-Activated Protein Kinase 2; MAPKAP Kinase 2; EC 2.7.11.1; MAPKAP-K2; MK-2; MAPK-Activated Protein Kinase 2; MAPKAPK-2; EC 2.7.11
Gene ID	9261.0
SwissProt ID	P49137
Immunogen	A synthesized peptide derived from human MAPKAP Kinase 2

Background

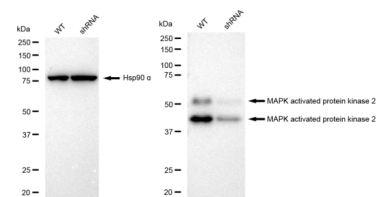
This gene encodes a member of the Ser/Thr protein kinase family. This kinase is regulated through direct phosphorylation by

p38 MAP kinase. In conjunction with p38 MAP kinase, this kinase is known to be involved in many cellular processes including stress and inflammatory responses, nuclear export, gene expression regulation and cell proliferation. Heat shock protein HSP27 was shown to be one of the substrates of this kinase in vivo. Two transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

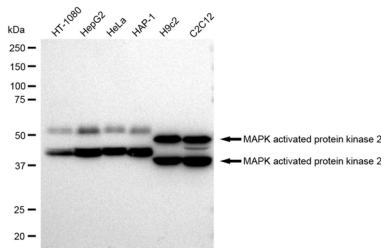
Research Area

Cardiovascular,Signal Transduction,Neuroscience

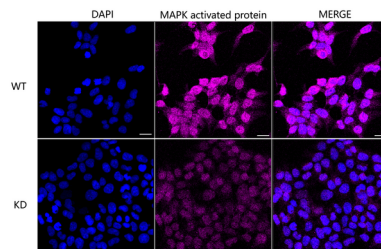
Image Data



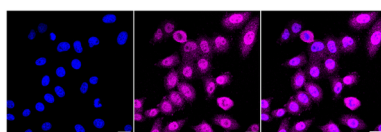
Western blotting analysis using MAPK activated protein kinase 2 antibody (KVA01508). MAPK activated protein kinase 2 expression in wild type (WT) and MAPK activated protein kinase 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MAPK activated protein kinase 2 antibody (KVA01508, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



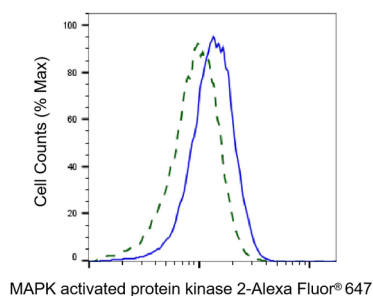
Western blotting analysis using MAPK activated protein kinase 2 antibody (KVA01508). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MAPK activated protein kinase 2 antibody (KVA01508, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using MAPK activated protein kinase 2 antibody (KVA01508, 1:1,000), Top panel: wild-type (WT); Bottom panel: MAPK activated protein kinase 2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; MAPK activated protein kinase 2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with MAPK activated protein kinase 2 antibody (KVA01508, 1:1,000). Nuclei were stained blue with DAPI; MAPK activated protein kinase 2 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.



Validation of MAPK activated protein kinase 2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with MAPK activated protein kinase 2 antibody (KVA01508, 1:2,000) and analyzed using BD flow cytometer.

