10320 Camino Santa Fe, Suite G
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KD-Validated Anti-MAP2K2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1324

Specification

KD-Validated Anti-MAP2K2 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P36507
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 44 kDa; observed, 44 kDa KDa**
Gene Name	**MAP2K2**
Aliases	**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**
Immunogen	**A synthesized peptide derived from human MEK2**

KD-Validated Anti-MAP2K2 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**5605**

Other Names
Dual specificity mitogen-activated protein kinase kinase 2, MAP kinase kinase 2, MAPKK 2, 2.7.12.2, ERK activator kinase 2, MAPK/ERK kinase 2, MEK 2, MAP2K2, MEK2, MKK2, PRKMK2

KD-Validated Anti-MAP2K2 Rabbit Monoclonal Antibody - Protein Information

Name MAP2K2

Synonyms MEK2, MKK2, PRKMK2

Function
Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates the ERK1 and ERK2 MAP kinases (By similarity). Activates BRAF in a KSR1 or KSR2-dependent manner; by binding to KSR1 or KSR2 releases the inhibitory intramolecular interaction between KSR1 or KSR2 protein kinase and N-terminal domains which promotes KSR1 or KSR2-BRAF dimerization and BRAF activation (PubMed:29433126).

Cellular Location
Cytoplasm. Membrane; Peripheral membrane protein. Note=Membrane localization is probably regulated by its interaction with KSR1.

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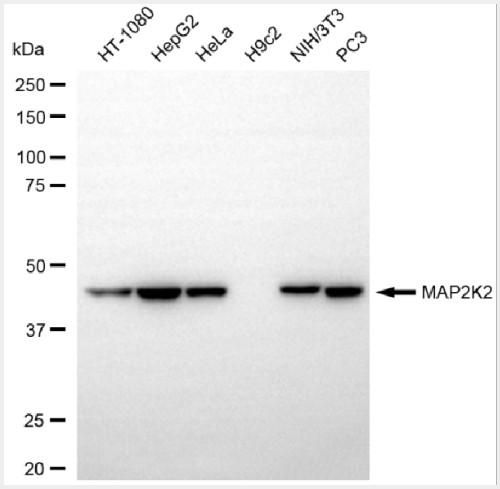
KD-Validated Anti-MAP2K2 Rabbit Monoclonal Antibody - Protocols

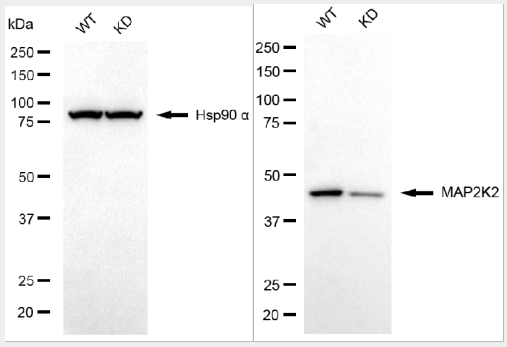
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-MAP2K2 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-MAP2K2 antibody (Cat#AGI1324). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-MAP2K2 antibody (Cat#AGI1324, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-MAP2K2 antibody (Cat#AGI1324). 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 anti-MAP2K2 antibody (Cat#AGI1324, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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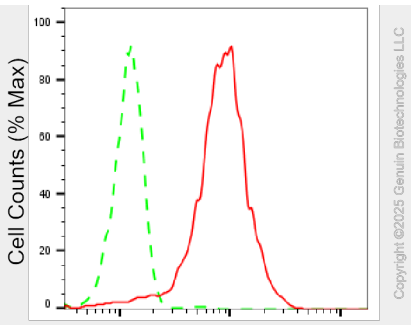
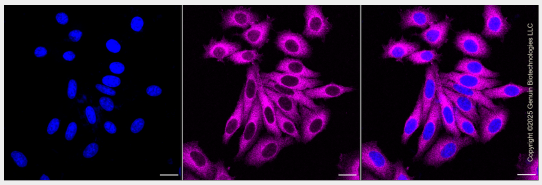


MAP2K2-Alexa Fluor® 647

Flow cytometric analysis of MAP2K2 expression in HepG2 cells using anti-MAP2K2 antibody (Cat#AGI1324, 1:2,000). Green, isotype control; red, MAP2K2.



Immunocytochemical staining of HepG2 cells with anti-MAP2K2 antibody (Cat#AGI1324, 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.