Product Name: KD-Validated Phospho-MEK1 (S298) Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb01004

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: 43.4kDa

Antigen Information

Gene Name	MAP2K1
Alternative Names	Mitogen-Activated Protein Kinase Kinase 1; MEK1; Dual Specificity Mitogen-Activated Protein Kinase Kinase 1; MAPK/ERK Kinase 1; MAPKK1; PRKMK1; MKK1; ERK Activator Kinase 1; MAP Kinase Kinase 1; EC 2.7.12.2; MAPKK 1; MEK 1; Protein Kinase, Mitogen-Activated, Kinase 1 (MAP Kinase Kinase 1); CFC3; MEL
Gene ID	5604.0
SwissProt ID	Q02750
Immunogen	A synthesized peptide derived from human Phospho-MEK1 (S298)

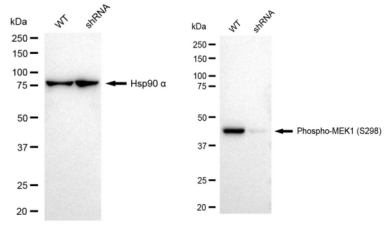
Background

The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. [provided by RefSeq, Jul 2008]

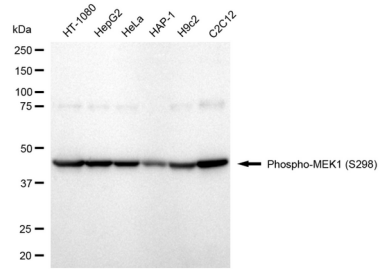
Research Area

Signal Transduction

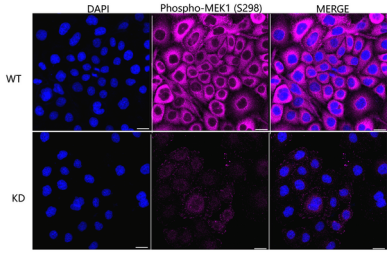
Image Data



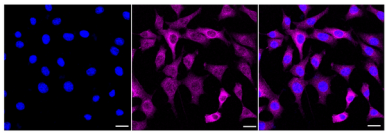
Western blotting analysis using Phospho-MEK1 (S298) antibody (KVAb01004). Phospho-MEK1 (S298) expression in wild type (WT) and Phospho-MEK1 (S298) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Phospho-MEK1 (S298) antibody (KVAb01004, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



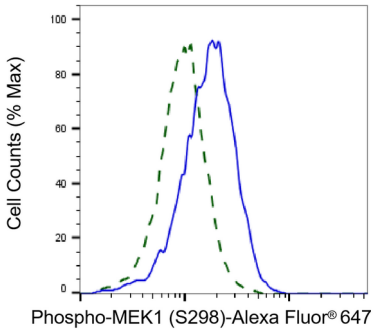
Western blotting analysis using Phospho-MEK1 (S298) antibody (KVAb01004). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Phospho-MEK1 (S298) antibody (KVAb01004, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



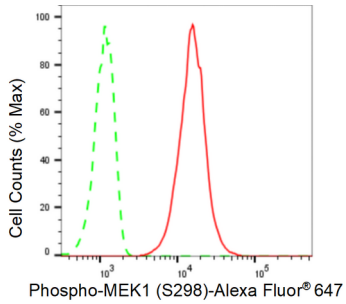
Immunocytochemical staining of HeLa cells using Phospho-MEK1 (S298) antibody (KVAb01004, 1:1,000), Top panel: wild-type (WT); Bottom panal:Phospho-MEK1 (S298) shRNA knockdown (KD). Nuclei were stained blue with DAPI;Phospho-MEK1 (S298) was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of C2C12 cells with Phospho-MEK1 (S298) antibody (KVAb01004, 1:1,000). Nuclei were stained blue with DAPI; Phospho-MEK1 (S298) 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 MEK1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Phospho-MEK1 (S298) antibody (KVAb01004, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Phospho-MEK1 (S298) expression in C2C12 cells using Phospho-MEK1 (S298) antibody (KVAb01004, 1:2,000). Green, isotype control; red, Phospho-MEK1 (S298).