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Phospho-MEK1/MEK2-S217/S221 Rabbit mAb

Catalog No.: AP1349 Recombinant 2 Publications

Basic Information

Observed MW
45kDa

Calculated MW
40kDa/43kDa/44kDa

Category
Primary antibody

Applications
WB,IP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC55711

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.

Recommended Dilutions

WB	1:2000 - 1:10000
IP	1μg-4μg antibody for 800μg-1000μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
5604/5605

Swiss Prot
Q02750/P36507

Immunogen
A synthetic phosphorylated peptide around S217 & S221 of human MEK1/MEK2 (NP_002746.1).

Synonyms
MEK1/MEK2; Phospho-MEK1/MEK2-S217/S221

Contact

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Product Information

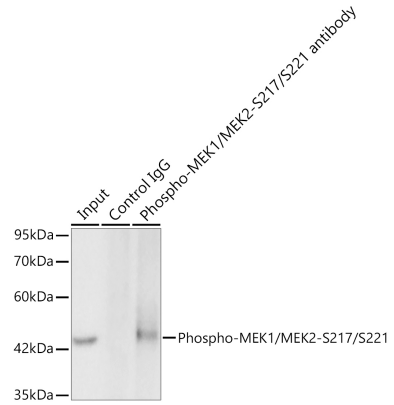
Source
Rabbit

Isotype
IgG

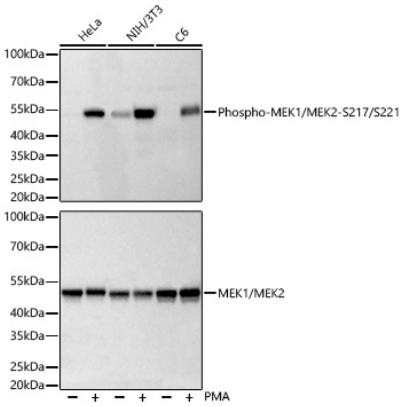
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Immunoprecipitation of Phospho-MEK1/MEK2-S217/S221 from 1000 µg extracts of HeLa cells treated by PMA (200nM, 1h) was performed using 2 µg of Phospho-MEK1/MEK2-S217/S221 Rabbit mAb (AP1349). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-MEK1/MEK2-S217/S221 Rabbit mAb (AP1349) at a dilution of 1:5000.



Western blot analysis of various lysates, using Phospho-MEK1/MEK2-S217/S221 Rabbit mAb (AP1349)at 1:3000 dilution (upper) or MEK1/MEK2 Rabbit mAb (A4868) at1:1000 dilution (lower). incubated overnight at 4℃. HeLa cells and NIH/3T3 cells were treated by PMA (100 nM) at 37℃ for 30 minutes after serum-starvation overnight. C6 cells were treated by PMA (200 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.