

MEK1/2 Recombinant Antibody | MAP2K1 recombinant antibody

Phospho-MEK1/2 (Ser217, 221) Antibody, Rabbit MAb

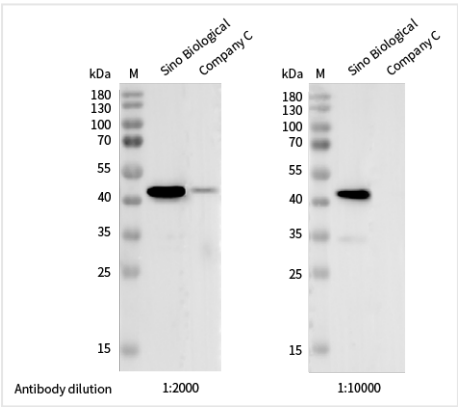
CATALOG # AAA259500	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

MEK1/2; Monoclonal Recombinant Antibody; Phospho-MEK1/2 (Ser217; 221) Antibody; Rabbit MAb; 2210) Antibody; mitogen-activated protein kinase kinase 1; Anti-CFC3 Antibody; Anti-MAPKK1 Antibody; Anti-MEK1 Antibody; Anti-MEL Antibody; Anti-MKK1 Antibody; Anti-PRKMK1 Antibody; MAP2K1 recombinant antibody

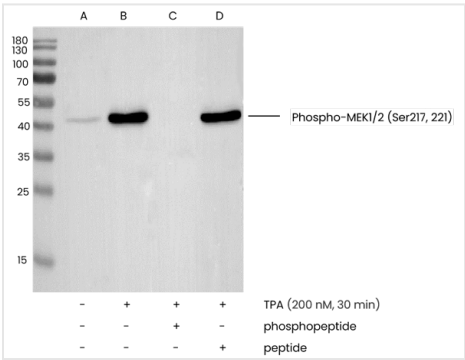
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	0008
Specificity	HumanSpecies predicted to react based on 100% sequence homology: Mouse, Rat, Cynomolgus, Bovin
Purity/Purification	Protein A
Form/Format	Liquid; 10 mM sodium HEPES, 150 mM NaCl, 100ug/mL BSA, 50% glycerol, pH 7.5
Applicable Applications for MAP2K1 recombinant antibody	WB (Western Blot)
Immunogen	AsyntheticphosphopeptidcorrespondingtoresiduesaroundSer218 and Ser222 of the Human MEK1 (Uniprot: Q02750-1) and Ser222 and Ser226 of the Human MEK2 (Uniprot: P36507). HumanMEK1 residue Ser218
Preparation	This antibody was obtained from a rabbit immunized with a synthetic phosphopeptide corresponding to residues around Ser218 and Ser222 of the Human MEK1 (Uniprot: Q02750-1) and Ser222 and Ser226 of the Human MEK2 (Uniprot: P36507). Human MEK1 residue Ser218 and Ser222 historically has been referenced as Ser217 and Ser221.
Preparation and Storage	This antibody can be stored at 2 degree C-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.



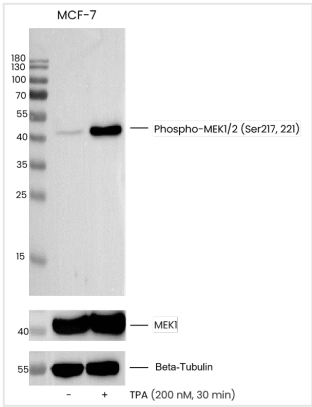
WB (Western Blot)

Western blot analysis of extracts from serum-starved Raji, treated with TPA (200 nM, 30 min), using Phospho-MEK1/2 (Ser217, 221) Antibody, Rabbit Mab (#AAA259500)(Sino Biological) and other brands' antibodies (Company C) at dilution of 1:2000, 1:10000. (Validation Experiment



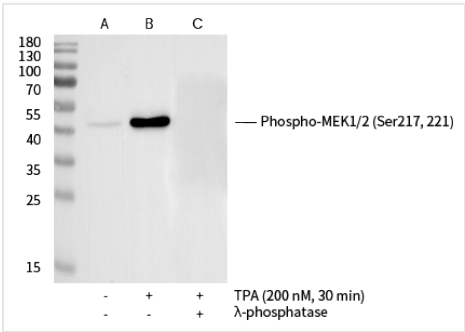
WB (Western Blot)

Western blot analysis of extracts from serum-starved Raji, untreated (line A); treated with TPA (200 nM, 30 min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-MEK1/2 (Ser217, 221) Antibody, Rabbit Mab (#AAA259500) at 1:1000 dilution. (Validation Experiment



WB (Western Blot)

Western blot analysis of extracts from serum-starved Raji, untreated (-) or treated with TPA (200 nM, 30 min)(+), using Phospho-MEK1/2 (Ser217, 221) Antibody, Rabbit Mab (#AAA259500) at 1:1000 dilution (upper) or Anti-MEK1 Antibody, Rabbit Polyclonal (middle) at 1:500 dilution or Beta-Tubulin Loading Control Antibody, Mouse Mab at 1:20000 dilution.



WB (Western Blot)

Western blot analysis of extracts from serum-starved Raji, untreated (line A); treated with TPA (200 nM, 30 min)(line B); treated with TPA and lambda-phosphatase (line C) using Phospho-MEK1/2 (Ser217,221) Antibody, Rabbit Mab (#AAA259500) at 1:1000 dilution.

ADDITIONAL INFORMATION

Related Product Information for MAP2K1 recombinant antibody

MEK1, also known as MAP2K1 and MKK1, 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. MEK1 is widely expressed, with extremely low levels in the brain. It lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon a wide variety of extra- and intracellular signals. As an essential component of the MAP kinase signal transduction pathway, MEK1 is involved in many cellular processes such as proliferation, differentiation, transcription regulation, and development. Binding extracellular ligands such as growth factors, cytokines, and hormones to their cell-surface receptors activates RAS and this initiates RAF1 activation. RAF1 then further activates the dual-specificity protein kinases MAP2K1 and MEK2. MEK1 has been shown to export PPARG from the nucleus. The MAPK cascade is also involved in the regulation of endosomal dynamics, including lysosome processing and endosome cycling through the perinuclear recycling compartment (PNRC), as well as in the fragmentation of the Golgi apparatus during mitosis. MKK1 catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Defects in MEK1 can cause Cardiofaciocutaneous Syndrome.

Product Categories/Family for MAP2K1 recombinant antibody

Death Receptor Signaling; Cancer Drug Targets

References

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- Hirat. H. e. al. (2012). . MicroRNA-182. target. VEGFC. beta-cateni. (CTNNB1. an. MEK. (MAP2K1. i. huma. bladde. cancer. Carcinogenesis. 33(1):41-8.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/mek1-2-recombinant-antibody-clone-0008-western-blot-elisa/259500>