

MEK2 (MAP2K2) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5178

Specification

MEK2 (MAP2K2) Antibody (N-term) - Product Information

Application WB,E
Primary Accession P36507

Other Accession
Reactivity
Predicted
Host
Clonality
P36506, Q63932
Human, Rat
Mouse
Rabbit
Polyclonal

Calculated MW H=44;M=44;Rat=44 KDa

Isotype Rabbit IgG
Antigen Source HUMAN

MEK2 (MAP2K2) Antibody (N-term) - Additional Information

Gene ID 5605

Antigen Region

1-30

Other Names

MAP2K2; MEK2; MKK2; PRKMK2; Dual specificity mitogen-activated protein kinase kinase 2; ERK activator kinase 2; MAPK/ERK kinase 2

Dilution

WB~~1:1000

Target/Specificity

This MEK2 (MAP2K2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human MEK2 (MAP2K2).

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MEK2 (MAP2K2) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MEK2 (MAP2K2) Antibody (N-term) - 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

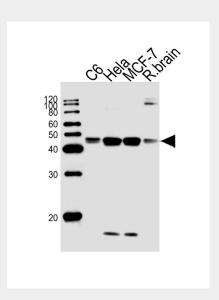
Cytoplasm. Membrane; Peripheral membrane protein. Note=Membrane localization is probably regulated by its interaction with KSR1.

MEK2 (MAP2K2) Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

MEK2 (MAP2K2) Antibody (N-term) - Images



Western blot analysis of lysates from rat C6,Hela,MCF-7 cell line and rat brain tissue lysate(from left to right), using MEK2 (MAP2K2) Antibody (N-term)(Cat. #AW5178). AW5178 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

MEK2 (MAP2K2) Antibody (N-term) - Background





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MAP2K2 is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. The inhibition or degradation of this kinase is found to be involved in the pathogenesis of Yersinia and anthrax.

MEK2 (MAP2K2) Antibody (N-term) - References

Burroughs, K.D., et al., Mol. Cancer Res. 1(4):312-322 (2003). Tran, H., et al., Mol. Cell. Biol. 23(20):7177-7188 (2003). Li, S.P., et al., Cancer Res. 63(13):3473-3477 (2003). Li, Y., et al., J. Biol. Chem. 278(16):13663-13671 (2003). Liu, X., et al., J. Biol. Chem. 277(42):39312-39319 (2002).