

# MEK2 (MAP2K2) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5178

## Product Information

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| <b>Application</b>       | WB  |
| <b>Primary Accession</b> | <a href="#">P36507</a>                          |
| <b>Other Accession</b>   | <a href="#">P36506</a> , <a href="#">Q63932</a> |
| <b>Reactivity</b>        | Mouse, Rat, Human                               |
| <b>Predicted</b>         | Mouse   |
| <b>Host</b>              | Rabbit  |
| <b>Clonality</b>         | Polyclonal                                      |
| <b>Calculated MW</b>     | 44424   |
| <b>Isotype</b>           | Rabbit IgG                                      |
| <b>Antigen Source</b>    | HUMAN   |

## Additional Information

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| <b>Gene ID</b>            | 5605  |
| <b>Antigen Region</b>     | 1-30  |
| <b>Other Names</b>        | MAP2K2; MEK2; MKK2; PRKMK2; Dual specificity mitogen-activated protein kinase kinase 2; ERK activator kinase 2; MAPK/ERK kinase 2   |
| <b>Dilution</b>           | WB~~1:1000  |
| <b>Target/Specificity</b> | 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). |
| <b>Format</b>             | 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.        |
| <b>Storage</b>            | 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.   |
| <b>Precautions</b>        | MEK2 (MAP2K2) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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| <b>Name</b>     | MAP2K2             |
| <b>Synonyms</b> | MEK2, MKK2, PRKMK2 |

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| <b>Function</b>          | 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: <a href="#">29433126</a> ). |
| <b>Cellular Location</b> | Cytoplasm. Membrane; Peripheral membrane protein. Note=Membrane localization is probably regulated by its interaction with KSR1.  |

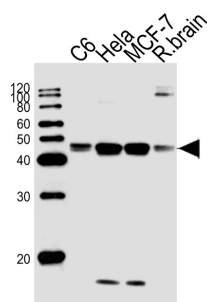
## Background

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.

## 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).

## 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.