

**MAP2K2 Antibody (S226)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7961f**

**Specification**

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**MAP2K2 Antibody (S226) - Product Information**

|                   |  |
|-------------------|--|
| Application       | WB,E   |
| Primary Accession | <a href="#">P36507</a>   |
| Other Accession   | <a href="#">P36506</a> , <a href="#">O63932</a> , <a href="#">O90891</a> , <a href="#">O05116</a> , <a href="#">O01986</a> ,<br><a href="#">P29678</a> , <a href="#">P31938</a> , <a href="#">O02750</a> , <a href="#">O63980</a> , <a href="#">O10664</a> ,<br><a href="#">O24324</a> |
| Reactivity        | Human  |
| Predicted         | Drosophila, C.Elegans, Hamster, Mouse,<br>Rabbit, Rat, Xenopus, Chicken  |
| Host              | Rabbit   |
| Clonality         | Polyclonal   |
| Isotype           | Rabbit IgG   |
| Calculated MW     | 44424  |
| Antigen Region    | 204-233  |

**MAP2K2 Antibody (S226) - Additional Information**

**Gene ID** 5605

**Other Names**

Dual specificity mitogen-activated protein kinase kinase 2, MAP kinase kinase 2, MAPKK 2, ERK activator kinase 2, MAPK/ERK kinase 2, MEK 2, MAP2K2, MEK2, MKK2, PRKMK2

**Target/Specificity**

This MAP2K2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 204-233 amino acids from human MAP2K2.

**Dilution**

WB~~1:1000

**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**

MAP2K2 Antibody (S226) is for research use only and not for use in diagnostic or therapeutic procedures.

**MAP2K2 Antibody (S226) - 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**

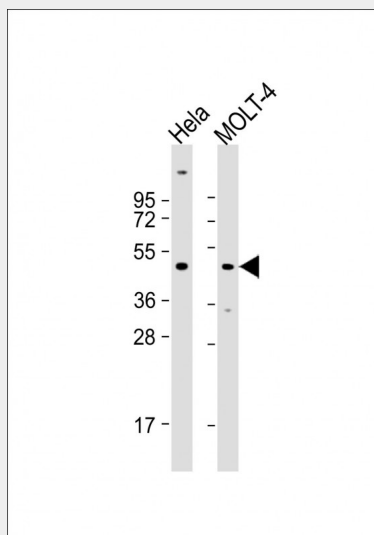
Cytoplasm. Membrane; Peripheral membrane protein. Note=Membrane localization is probably regulated by its interaction with KSR1.

### **MAP2K2 Antibody (S226) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **MAP2K2 Antibody (S226) - Images**



All lanes : Anti-MAP2K2-pS226. ctrl at 1:1000 dilution Lane 1: HeLa whole cell lysate Lane 2: MOLT-4 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

### **MAP2K2 Antibody (S226) - 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.

#### **MAP2K2 Antibody (S226) - 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).