

**MEKK2 Antibody**

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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|                               |                         |                                   |                        |                                  |                               |                                 |
|-------------------------------|-------------------------|-----------------------------------|------------------------|----------------------------------|-------------------------------|---------------------------------|
| <b>Applications:</b><br>W, IP | <b>Reactivity:</b><br>H | <b>Sensitivity:</b><br>Endogenous | <b>MW (kDa):</b><br>78 | <b>Source/Isotype:</b><br>Rabbit | <b>UniProt ID:</b><br>#Q9Y2U5 | <b>Entrez-Gene Id:</b><br>10746 |
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:50

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

MEKK2 Antibody recognizes endogenous levels of total MEKK2 protein. This antibody does not cross-react with MEKK3 protein.

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly292 of human MEKK2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

**Background**

Mitogen-activated protein kinase kinase kinase 2 (MEKK2/MAP3K2) belongs to the MAP3K family of Ser/Thr kinases. Research studies have demonstrated that MEKK2 plays a pivotal role in transducing mitogenic signals emanating from EGFR and FGF2R to JNK and ERK5 signaling cascades (1,2). Post-translationally, MEKK2 is regulated through multiple mechanisms, including dimerization (3,4), ubiquitination (5,6), phosphorylation (7), and methylation (8). Research studies implicate dysregulation of MEKK2 signaling in breast carcinoma (9), colorectal carcinoma (10), and pancreatic ductal adenocarcinoma (8).

**Background References**

- Sun, W. et al. (2003) *Mol Cell Biol* 23, 2298-308.
- Kesavan, K. et al. (2004) *J Cell Physiol* 199, 140-8.
- Cheng, J. et al. (2005) *Mol Cell Biol* 25, 5955-64.
- Cheng, J. et al. (2005) *J Biol Chem* 280, 13477-82.
- Takeda, A.N. et al. (2014) *EMBO J* 33, 1784-801.
- Yamashita, M. et al. (2005) *Cell* 121, 101-13.
- Zhang, D. et al. (2006) *EMBO J* 25, 97-107.
- Mazur, P.K. et al. (2014) *Nature* 510, 283-7.
- Mirza, A.A. et al. (2014) *Biochim Biophys Acta* 1843, 945-54.
- Jiang, L. et al. (2013) *Oncol Lett* 6, 1333-37.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation

**Cross-Reactivity Key**

**H:** Human

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