

## Anti-MEKK2/MAP3K2 Antibody Picoband®

Catalog Number: PA1499

### About MAP3K2

MAP3K2, mitogen-activated protein kinase kinase kinase 2, also known as MEKK2, belongs to the mitogen-activated protein kinase (MAPK) kinase gene family, which is involved in regulating multiple MAPK signaling pathways. Endogenous MAP3K2 localized mainly to the cytosol of unstimulated HeLa cells and rat fibroblasts. The MAP3K2 gene is mapped to chromosome 2 by the International Radiation Hybrid Mapping Consortium. MAP3K2 is a major upstream activator of the JNK, MAPK cascade. MAP3K2 was identified as 1 of 6 kinases that regulate different steps of the caveolar cycle. Silencing of MAP3K2 strongly reduced kiss-and-run dynamics, leading to an accumulation of caveolar structures at the cell surface without affecting caveolae coat assembly or clustering.

### Overview

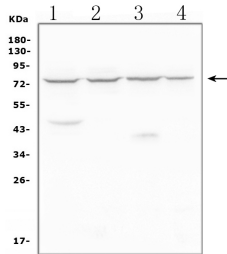
|                      |   |
|----------------------|---|
| Product Name         | Anti-MEKK2/MAP3K2 Antibody Picoband®  |
| Reactive Species     | Human, Mouse, Rat   |
| Description          | Boster Bio Anti-MEKK2/MAP3K2 Antibody catalog # PA1499. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.   |
| Application          | WB  |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .<br>*This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.   |
| Host                 | Rabbit  |
| Uniprot ID           | Q9Y2U5  |

### Technical Details

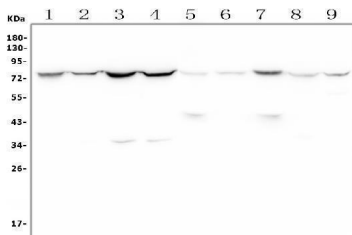
|                               |   |
|-------------------------------|---|
| Immunogen                     | A synthetic peptide corresponding to a sequence at the C-terminus of human MEKK2, different from the related rat and mouse sequences by one amino acid. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.   |

|                     |   |
|---------------------|---|
| Cross Reactivity    | No cross-reactivity with other proteins                                   |
| Isotype             | Rabbit IgG  |
| Form                | Lyophilized   |
| Concentration       | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification        | Immunogen affinity purified.  |
| Suggested Dilutions | Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse                             |

## Anti-MEKK2/MAP3K2 Antibody Picoband® (PA1499) Images



Western blot analysis of MEKK2 using anti-MEKK2 antibody (PA1499). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Caco-2 whole cell lysates Lane 2: human K562 whole cell lysates Lane 3: human THP-1 whole cell lysates Lane 4: human Raji whole cell lysates After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MEKK2 antigen affinity purified polyclonal antibody (Catalog # PA1499) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for MEKK2 at approximately 78KD. The expected band size for MEKK2 is at 70KD.



Western blot analysis of MEKK2 using anti-MEKK2 antibody (PA1499). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat kidney tissue lysates Lane 2: rat brain tissue lysates Lane 3: rat heart tissue lysates Lane 4: rat C6 whole cell lysates Lane 5: mouse kidney tissue lysates Lane 6: mouse brain tissue lysates Lane 7: mouse heart tissue lysates Lane 8: mouse Neuro-2a whole cell lysates Lane 9: mouse NIH/3T3 whole cell lysates After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MEKK2 antigen affinity purified polyclonal antibody (Catalog # PA1499) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for MEKK2 at approximately 78KD. The expected band size for MEKK2 is at 70KD.

## 1 Publications Citing This Product

1. PubMed ID: 25304384, Li Y, Zhang Z, Zhou X, Li L, Liu Q, Wang Z, Bai X, Zhao Y, Shi H, Zhang X, Ye L. Cancer Lett. 2014 Dec 28;355(2):288-96. Doi: 10.1016/J.Canlet.2014.09.047. Epub 2014 Oct 7. The Oncoprotein Hbxip Enhances Migration Of Breast Cancer Cells Through In...

Visit [bosterbio.com/anti-mekk2-antibody-pa1499-boster.html](http://bosterbio.com/anti-mekk2-antibody-pa1499-boster.html) to see all 1 publications.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-MEKK2/MAP3K2 Antibody

For Research Use Only. Not for use in diagnostic procedures.