

## Anti-MEK4/MAP2K4 Antibody

Catalog Number: PA2275

### About MAP2K4

Dual specificity mitogen-activated protein kinase kinase 4 (MAP2K4), also called SEK1 or JNKK1, is an enzyme that in humans is encoded by the MAP2K4 gene. It is mapped to 17p12. This gene encodes a dual specificity protein kinase that belongs to the Ser/Thr protein kinase family. This kinase is a direct activator of MAP kinases in response to various environmental stresses or mitogenic stimuli. It has been shown to activate MAPK8/JNK1, MAPK9/JNK2, and MAPK14/p38, but not MAPK1/ERK2 or MAPK3/ERK1. This kinase is phosphorylated, and thus activated by MAP3K1/MEKK. MAP2K4 was a specific activator of JNK1, JNK2, and p38, and it has been shown to interact with FLNC, MAPK8, MAPK8IP3 and AKT1.

### Overview

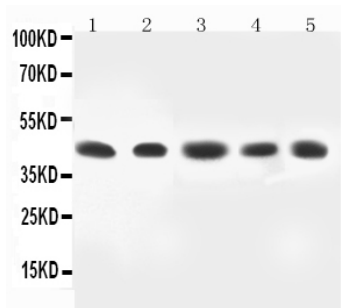
|                      |                                                                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-MEK4/MAP2K4 Antibody                                                                                                                                                                             |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                     |
| Description          | Boster Bio Anti-MEK4/MAP2K4 Antibody catalog # PA2275. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.                                                                        |
| Application          | WB                                                                                                                                                                                                    |
| Clonality            | Polyclonal                                                                                                                                                                                            |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg NaN <sub>3</sub> .                                                                                   |
| 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           | P45985                                                                                                                                                                                                |

### Technical Details

|                               |                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | A synthetic peptide corresponding to a sequence at the C-terminus of human MEK4, different from the related mouse and rat sequences by one amino acid. |
| Predicted Reactive Species    | Chicken                                                                                                                                                |
| 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 | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p> |

## Anti-MEK4/MAP2K4 Antibody (PA2275) Images



Anti-MEK4 antibody, PA2275, All Western blotting  
All lanes: Anti-MAP2K4(PA2275) at 0.5ug/ml  
Lane 1: Rat Skeletal Muscle Tissue Lysate at 40ug  
Lane 2: HELA Whole Cell Lysate at 40ug  
Lane 3: A549 Whole Cell Lysate at 40ug  
Lane 4: MM231 Whole Cell Lysate at 40ug  
Lane 5: CEM Whole Cell Lysate at 40ug  
Predicted bind size: 44KD  
Observed bind size: 44KD

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