

## Anti-MAP3K1 (Mitogen-Activated Protein Kinase Kinase Kinase 1) Monoclonal Antibody

Catalog Number: M01972

### About MAP3K1

Mitogen-activated protein (MAP) kinase cascades are activated by various extracellular stimuli, including growth factors. The MEK kinases (also designated MAP kinase kinase kinases, MKKKs, MAP3Ks or MEKKs) phosphorylate and thereby activate the MEKs (also called MAP kinase kinases or MKKs), including ERK, JNK and p38. These activated MEKs in turn phosphorylate and activate the MAP kinases. The MEK kinases include Raf-1, Raf-B, Mos, MEK kinase-1, MEK kinase-2, MEK kinase-3, MEK kinase-4 and ASK 1 (MEK kinase- 5). MEK kinase-1 activates the ERK and c-Jun NH2-terminal kinase (JNK) pathways by phosphorylation of MAP2K1 and MAP2K4, and also activates the central protein kinases of the NFB pathway, CHUK and IKBKB. Additionally, MEK kinase-1 uses an E3 ligase through its PHD domain, a RING-finger-like structure, to target proteins for degradation through ubiquitination.

### Overview

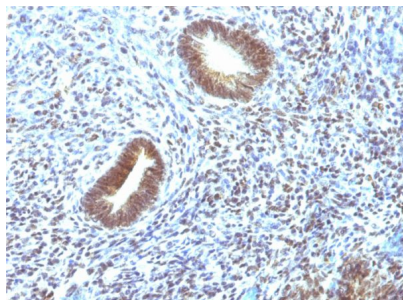
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|----------------------|--|
| Product Name         | Anti-MAP3K1 (Mitogen-Activated Protein Kinase Kinase Kinase 1) Monoclonal Antibody   |
| Reactive Species     | Human  |
| Description          | Boster Bio Anti-MAP3K1 (Mitogen-Activated Protein Kinase Kinase Kinase 1) Monoclonal Antibody (Catalog # M01972). Tested in WB, IHC applications. This antibody reacts with Human. |
| Conjugate            | Biotin   |
| Application          | IHC, WB  |
| Clonality            | Monoclonal Clone: 2F6  |
| Formulation          | Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.   |
| Storage Instructions | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.                        |
| Host                 | Mouse  |
| Uniprot ID           | Q13233   |

### Technical Details

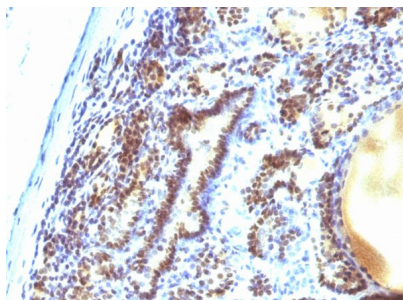
|                            |  |
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| Immunogen                  | Partial recombinant MAP3K1 (aa1077-1176) (SKNSMTLDLNSSSKCDDSFSGCSSNSSNAVIPSDETVF TP-VEEKCRLDVNTELNSSIEDLLEASMPSSDTTVTFKSEVAVLSPEKAENDDTYKDDVNHNQK) |
| Predicted Reactive Species | Pig, Rabbit  |
| Cross Reactivity           | Does not cross-react with primate, avian or amphibian GR.  |
|                            |  |

|                     |   |
|---------------------|---|
| Isotype             | IgG2a, kappa  |
| Form                | Liquid  |
| Concentration       | Purified antibody with BSA and azide at 200ug/ml  |
| Purification        | 200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.   |
| 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 (1-2ug/ml)</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris Buffer with 1mM EDTA, pH 9.0, for 45 min at 95&amp;degC followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.</p> |

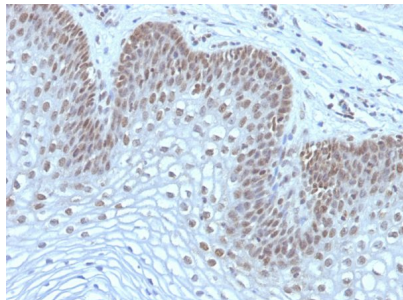
## Anti-MAP3K1 (Mitogen-Activated Protein Kinase Kinase Kinase 1) Monoclonal Antibody (M01972) Images



Formalin-fixed, paraffin-embedded human Uterine Carcinoma stained with Anti-MAP3K1 Mouse Monoclonal Antibody (2F6).



Formalin-fixed, paraffin-embedded human Thyroid Carcinoma stained with Anti-MAP3K1 Mouse Monoclonal Antibody (2F6).



Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with Anti-MAP3K1 Mouse Monoclonal Antibody (2F6).

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