

## Anti-ERK1 MAPK3 Rabbit Monoclonal Antibody

Catalog Number: M00104-2

### About MAPK3

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) . PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

### Overview

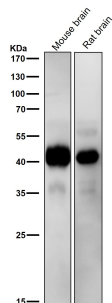
|                      |                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-ERK1 MAPK3 Rabbit Monoclonal Antibody                                                                                                             |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                      |
| Description          | Boster Bio Anti-ERK1 MAPK3 Rabbit Monoclonal Antibody catalog # M00104-2. Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat. |
| Application          | IHC, WB                                                                                                                                                |
| Clonality            | Monoclonal ACE-13                                                                                                                                      |
| Formulation          | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                    |
| Storage Instructions | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.             |
| Host                 | Rabbit                                                                                                                                                 |
| Uniprot ID           | P27361                                                                                                                                                 |

### Technical Details

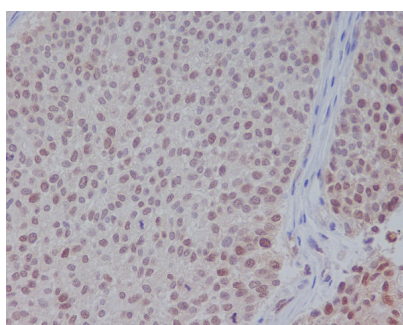
|                     |                                                                                                                                                                                                                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen           | A synthesized peptide derived from human ERK1                                                                                                                                                                                                                                                                                                  |
| Isotype             | Rabbit IgG                                                                                                                                                                                                                                                                                                                                     |
| Form                | Liquid                                                                                                                                                                                                                                                                                                                                         |
| Concentration       | Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.                                                                                                                                                                                                                                                   |
| Purification        | Affinity-chromatography                                                                                                                                                                                                                                                                                                                        |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows: |

Boster Bio's internal QC testing used:  
WB 1:500-1:2000  
IHC 1:50-1:200

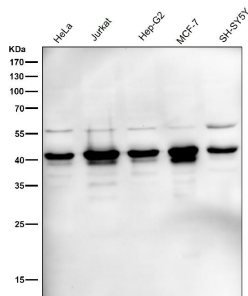
## Anti-ERK1 MAPK3 Rabbit Monoclonal Antibody (M00104-2) Images



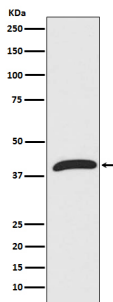
All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



Immunohistochemical analysis of paraffin-embedded human bladder, using ERK1 Antibody.



All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



Western blot analysis of ERK1 in Jurkat cell lysate.

## 6 Publications Citing This Product

1. PubMed ID: 17392578, Hu Cp, Feng Jt, Tang Yl, Zhu Jq, Lin Mj, Yu Me. Mediators Inflamm. 2006;2006(5):84829. Lif Upregulates Expression Of Nk-1R In Nhbe Cells.

2. PubMed ID: 21985377, Synthesis and biological evaluation of novel N, N'-disubstituted urea and thiourea derivatives as potential anti-melanoma agents

3. PubMed ID: 22272075, Inhibition of extracellular signal-regulated kinases ameliorates hypertension-induced renal vascular remodeling in rat models

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