

## Anti-ERK1 MAPK3 Rabbit Monoclonal Antibody

Catalog Number: M00104

### 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 PDK1, 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
Description	Boster Bio Anti-ERK1 MAPK3 Rabbit Monoclonal Antibody catalog # M00104. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal ADF-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. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. 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

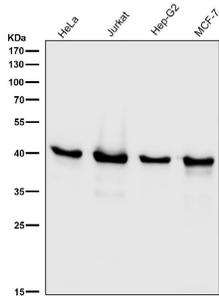
IHC 1:50-1:200

ICC/IF 1:50-1:250

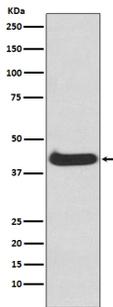
IP 1:50

FC 1:50

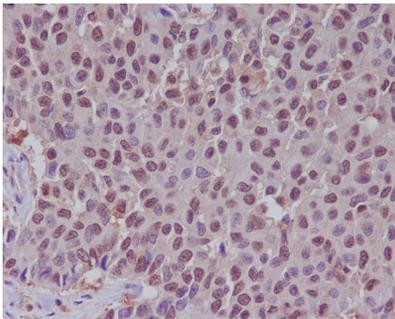
## Anti-ERK1 MAPK3 Rabbit Monoclonal Antibody (M00104) Images



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



Western blot analysis of ERK1 in NIH-3T3 cell lysate.



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

## 7 Publications Citing This Product

1. PubMed ID: 32980473, Wang C,Wang J,Liu X,Han Z,Aimin Jiang,Wei Z,Yang Z.Cl-amidine attenuates lipopolysaccharide-induced mouse mastitis by inhibiting NF-kappaB, MAPK, NLRP3 signaling pathway and neutrophils extracellular traps release.Microb Pathog.2020 Sep 24;149:104530.doi:10.1
2. 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.
3. PubMed ID: 21985377, Synthesis and biological evaluation of novel N, N%u2032-disubstituted urea and thiourea derivatives as potential anti-melanoma agents

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