

## Anti-ERK2/MAPK1 Antibody

Catalog Number: PA1310-1

### About MAPK1

Mitogen-activated protein kinase 1, also known as MAPK1, p42MAPK, and ERK2, is an enzyme which in humans is encoded by the MAPK1 gene. The gene is mapped to 22q11.2. And The protein encoded by this gene is a member of the MAP kinase family. The deduced 360-amino acid human ERK2 protein shares 98% identity with rat Erk2. The MAP kinase ERK2 is widely involved in eukaryotic signal transduction. Upon activation, it translocates to the nucleus of the stimulated cell, where it phosphorylates nuclear targets. Furthermore, the ERK pathway is necessary for experience-dependent plasticity and for long-term potentiation of synaptic transmission in the developing visual cortex. And the MAPK pathway is also involved in responses to NTN1.

### Overview

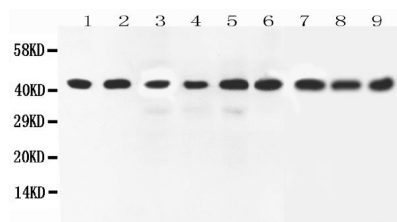
Product Name	Anti-ERK2/MAPK1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ERK2/MAPK1 Antibody catalog # PA1310-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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	P28482

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ERK2, identical to the related rat and mouse sequences.
Predicted Reactive Species	Canine, Horse, Monkey, Rabbit, Zebrafish
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-ERK2/MAPK1 Antibody (PA1310-1) Images



Anti-ERK2 antibody, PA1310-1, All Western blotting

All lanes: Anti-MAPK1(PA1310-1) at 0.5ug/ml

Lane 1: Human Placenta Tissue Lysate at 40ug

Lane 2: Rat Liver Tissue Lysate at 40ug

Lane 3: Rat Brain Tissue Lysate at 40ug

Lane 4: Rat Thymus Tissue Lysate at 40ug

Lane 5: HELA Whole Cell Lysate at 40ug

Lane 6: SMMC Whole Cell Lysate at 40ug

Lane 7: COLO320 Whole Cell Lysate at 40ug

Lane 8: MM231 Whole Cell Lysate at 40ug

Lane 9: CEM Whole Cell Lysate at 40ug

Predicted bind size: 41KD

Observed bind size: 41KD

## 5 Publications Citing This Product

1. PubMed ID: 21769431, Sang J, Chen Y, Tao Y. Mol Med Rep. 2011 Nov-Dec;4(6):1163-7. Doi: 10.3892/Mmr.2011.535. Epub 2011 Jul 15. Nitric Oxide Inhibits Gastric Cancer Cell Growth Through The Modulation Of The Akt Pathway.
2. PubMed ID: 28193911, eIF3i activity is critical for endothelial cells in tumor induced angiogenesis through regulating VEGFR and ERK translation
3. PubMed ID: 24718680, Ma Hr, Wang J, Chen Yf, Chen H, Wang Ws, Aisa Ha. Int J Mol Med. 2014 Jun;33(6):1627-34. Doi: 10.3892/Ijmm.2014.1722. Epub 2014 Apr 3. Icaritin And Icaritin Stimulate The Proliferation Of Skbr3 Cells Through The Gper1-Mediated Modulation Of The Egf...

Visit [bosterbio.com/anti-erk2-antibody-pa1310-1-boster.html](http://bosterbio.com/anti-erk2-antibody-pa1310-1-boster.html) to see all 5 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-ERK2/MAPK1 Antibody