

Anti-MAPK1/3 Antibody

Catalog Number: PA1049

About MAPK1

MAPK1 (ERK2) shares high homology with MAPK3 (ERK1). MAP kinase phosphatase as a locus of flexibility in a mitogen-activated protein kinase signaling network. Mitogen-activated protein (MAP) kinases [also known as Erks] have been established to function as important mediators of signal transduction by growth factor receptors. ERK1/ERK2-dependent activation of endogenous ribosomal transcription, while inactivation of ERK1/ERK2 causes an equally immediate reversion to the basal transcription level. ERK1/ERK2 was found to phosphorylate the architectural transcription factor UBF at amino acids 117 and 201 within HMG boxes 1 and 2, preventing their interaction with DNA. Mutation of these sites inhibited transcription activation and abrogated the transcriptional response to ERK1/ERK2.

Overview

Product Name	Anti-MAPK1/3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MAPK1/3 Antibody catalog # PA1049. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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

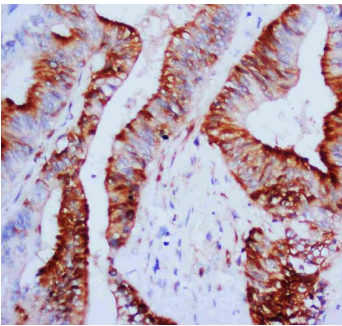
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human MAPK1/3 (171-184aa ARVADPDHDHTGFL), identical to the related rat and mouse sequences.
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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 µg/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: Boster Bio's internal QC testing used Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat</p> <p>For protocols, please visit https://www.bosterbio.com/protocol-and-troubleshooting/</p>

Anti-MAPK1/3 Antibody (PA1049) Images



Anti-MAPK1/3 antibody, PA1049, Western blotting
WB: HELA Cell Lysate



Anti-MAPK1/3 antibody, PA1049, IHC(P)
IHC(P): Human Mammary Cancer Tissue

4 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: 26097571, Li Xi, Chen Xq, Zhang Mn, Chen N, Nie L, Xu M, Gong J, Shen Pf, Su Zz, Weng X, Tan Jy, Zhao T, Zeng H, Zhou Q. Int J Clin Exp Pathol. 2015 Apr 1;8(4):3871-81. Ecollection 2015. Sox9 Was Involved In Tkis Resistance In Renal Cell Carcinoma Via Raf/M...

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