

Anti-Phospho-MAP Kinase, Activated(Diphosphorylated ERK-1&2) Mapk3 Antibody (Monoclonal, MAPK-YT)

Catalog Number: MA1055

About Mapk3

In mammalian cells, a variety of extracellular stimuli generate intracellular signals that converge on a limited number of so-called mitogen-activated protein (MAP) kinase pathways. The central core of each MAP kinase (MAPK) pathway is a conserved cascade of 3 protein kinases: an activated MAPK kinase kinase (MAPKKK) phosphorylates and activates a specific MAPK kinase (MAPKK), which then activates a specific MAPK. Mek1/2 MAPK kinases are essential for mammalian development, homeostasis, and Raf-induced hyperplasia. Germline mutations in genes within the MAPK pathway cause cardio-facio-cutaneous syndrome.

Overview

Product Name	Anti-Phospho-MAP Kinase, Activated(Diphosphorylated ERK-1&2) Mapk3 Antibody (Monoclonal, MAPK-YT)
Reactive Species	Human, Mouse, Rat, Yeast
Description	Boster Bio Anti-Phospho-MAP Kinase, Activated (Diphosphorylated ERK-1&2) Mapk3 Antibody (Monoclonal, MAPK-YT) catalog # MA1055. Tested in IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat, Yeast.
Application	IHC, ICC, WB
Clonality	Monoclonal MAPK-YT
Formulation	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.
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	Mouse
Uniprot ID	P21708

Technical Details

Immunogen	A synthetic peptide containing 11 amino acids, HTGFLTpEYpVAT, corresponding to the phosphorylated form of ERK-activation loop conjugated to KLH.
Predicted Reactive Species	Bovine, Monkey
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG1

Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites
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: Immunohistochemistry (Paraffin-embedded Section), 0.4-1ug/ml, Human, mouse, rat, yeast, By Heat Immunocytochemistry , 1ug/ml, Human, mouse, rat, yeast, - Western blot, 0.25-0.5ug/ml, Human, mouse, rat, yeast

Anti-Phospho-MAP Kinase, Activated(Diphosphorylated ERK-1&2) Mapk3 Antibody (Monoclonal, MAPK-YT) (MA1055) Images

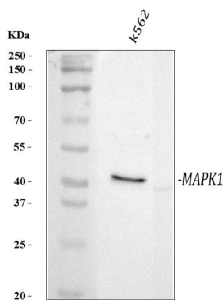


Figure 1. Western blot analysis of MAP kinase, activated using anti-MAP kinase, activated antibody (MA1055). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human K562 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-MAP kinase, activated antigen affinity purified monoclonal antibody (Catalog # MA1055) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for MAP kinase, activated at approximately 42 kDa. The expected band size for MAP kinase, activated is at 41 kDa.

7 Publications Citing This Product

1. PubMed ID: -, Mehrdoost, S., Yaghmaei, P., Jafary, H., Ebrahim-Habibi, A. (2021). The therapeutic effects of berberine plus sitagliptin in a rat model of fatty liver disease. Iranian Journal of Basic Medical Sciences, 24(4), 451-459. doi: 10.22038/ijbms.2021.52239.11822
2. PubMed ID: -, Huanyue Cui, Xueying Liu, Jin Zhang, Ke Zhang, Dahong Yao, Shi Dong, Shushu Feng, Lu Yang, Yuyao Li, Hangyu Wang, Jian Huang, Jinhui Wang, "Rhodiola rosea L. Attenuates Cigarette Smoke and Lipopolysaccharide-Induced COPD in Rats via Inflammation Inhibition and Antioxidant and Antifibrosis Pathways", Evidence-Based Complementary and Alternative Medicine, vol. 2021, Article ID 6103158, 18 pages, 2021. <https://doi.org/10.1155/2021/6103158>
3. PubMed ID: 32794226, Ma G, Kimatu BM, Yang W, Pei F, Zhao L, Du H, Su A, Hu Q, Xiao H. Preparation of newly identified polysaccharide from *Pleurotus eryngii* and its anti-inflammation activities potential. J Food Sci. 2020 Sep;85(9):2822-2831. doi:10.1111/1750-3841.15375. Epub 2020 Aug 14

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