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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Phospho-Erk1 (T202/Y204) + Erk2 (T185/Y187) MAPK3 Rabbit Monoclonal Antibody

Catalog Number: P00104

Overview

Product Name	Anti-Phospho-Erk1 (T202/Y204) + Erk2 (T185/Y187) MAPK3 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-Erk1 (T202/Y204) + Erk2 (T185/Y187) MAPK3 Rabbit Monoclonal Antibody catalog # P00104. Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	IP, WB
Clonality	Monoclonal BIH-13
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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/P28482

Technical Details

Immunogen	A synthesized peptide derived from human Phospho-ERK1 (T202/Y204) + ERK2 (T185/Y187)
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IP 1:20

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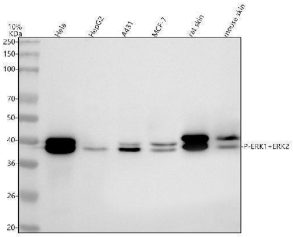
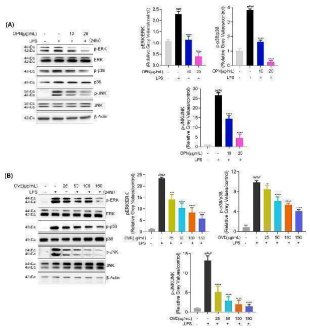
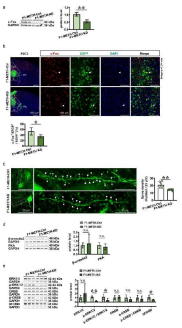
Anti-Phospho-Erk1 (T202/Y204) + Erk2 (T185/Y187) MAPK3 Rabbit Monoclonal Antibody (P00104) Images



Western blot analysis of MAPK3 using anti-MAPK3 antibody (P00104). 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 Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: human MCF-7 whole cell lysates, Lane 5: rat skin tissue lysates, Lane 7: mouse skiin tissue 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 rabbit anti-MAPK3 antigen affinity purified monoclonal antibody (Catalog # P00104) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for MAPK3 at approximately 39 kDa. The expected band size for MAPK3 is at 42 kDa.

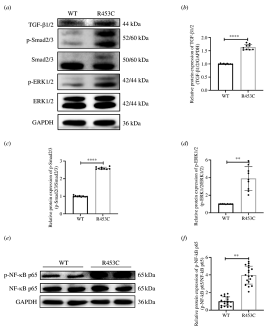


Effects of OPN and OVE on activation of MAPK signaling pathways in LPS-stimulated RAW264.7 cells. Expression levels of p-ERK, ERK, p-p38, p-38, p-JNK, and JNK were detected in the same samples for COX-2 detection after 24 h of LPS stimulation. (A) OVE treatment. (B) OPN treatment. All experiments were carried out in triplicates and data are presented as means ± SDs; one-way ANOVA analysis was adopted for multiple comparisons; ###P<0.001, ####P<0.0001, compared to the untreated control group; ***P<0.001 and ****P<0.0001, compared to the LPS control group. Index in PubMed under a CC BY license. PMID: 39455284



Effects of knocking-down ADRB1 CaMKII on mPFC activity and subsequent signals in METH-sired male F1. a Levels of c-Fos protein. b The c-Fos immunostaining. Scale bar, 500 um /100 um. c Density of dendritic spine. Scale bar, 50 um /10 um. d Levels of beta-arestin2 and PKA protein. e Levels of ERK1/2, p-ERK1/2, ERK1/2/p-ERK1/2, CREB, p-CREB, p-CREB/CREB and ΔFosB protein. F1-METH-Ctrl, METH-sired male F1 mice injected with Ctrl virus. F1-METH-KD, METH-sired male F1 mice injected with KD virus. The data are presented as the Mean ± SD. N.S., P > 0.05. * P

Effect of MYH7 R453C mutation on TGF-beta/Smad2/3, ERK1/2, NF-kappaB and PI3K/AKT pathways. (a) The protein expression of TGF-beta/Smad2/3 and ERK1/2 cascades were



detected by western blotting. (b–d) The protein expression of TGF-beta1/2, p-Smad2/3/Smad2/3 and p-ERK1/2/ERK1/2 were quantitated using densitometry. (e) The protein expression of NF-kappaB signalling was detected by western blotting. (f) Quantitative analysis of the protein expression of p-NF-kappaB p65 and NF-kappaB p65. **p < 0.01, ****p < 0.0001. n = 3 biologically independent samples. Index in PubMed under a CC BY license. PMID: 38862020

10 Publications Citing This Product

1. PubMed ID: 10.1016/j.jds.2020.07.013, Overexpression of sprouty 1 protein in human oral squamous cell carcinogenesis

2. PubMed ID: 33485325, Wang L,Xiong Q,Li P,Chen G,Tariq N,Wu C.The negative charge of the 343 site is essential for maintaining physiological functions of CXCR4.BMC Mol Cell Biol.2021 Jan 23;22(1):8.doi:10.1186/s12860-021-00347-9.PMID:33485325;PMCID:PMC7825245.

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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