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Anti-MKK3 (Ab-189) MAP2K3 Antibody

Catalog Number: A02916

About MAP2K3

MEK3 belongs to MAPKK family. This kinase is activated by mitogenic and environmental stress, and participates in the MAPK-mediated signaling cascade. It phosphorylates and thus activates p38. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of Ras oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of p38, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersina pseudotuberculosis.

Wang W, et al. (2002) Mol Cell Biol ; 22(10): 3389-403.
Raingeaud J, et al. (1996) Mol Cell Biol; 16(3): 1247-55.

Overview

Product Name	Anti-MKK3 (Ab-189) MAP2K3 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-MKK3 (Ab-189) MAP2K3 Antibody (Catalog # A02916). Tested in WB, IHC, IF applications. This antibody reacts with Human, Mouse.
Conjugate	Unconjugated
Application	IF, IHC, WB
Clonality	Polyclonal 7A6
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
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	P46734

Technical Details

Immunogen	Peptide sequence around aa.187~191 (V-D-S-V-A) derived from Human MKK3.
Predicted Reactive Species	Bovine, Canine, Equine, Guinea Pig, Pig
Isotype	IgG
Form	Liquid

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Concentration	1 mg/ml
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
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: Predicted MW: 40kd Western blotting: 1:500~1:1000 Immunohistochemistry: 1:50~1:100 Immunofluorescence: 1:100~1:200

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Anti-MKK3 (Ab-189) MAP2K3 Antibody (A02916) Images

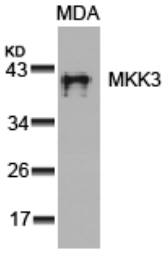
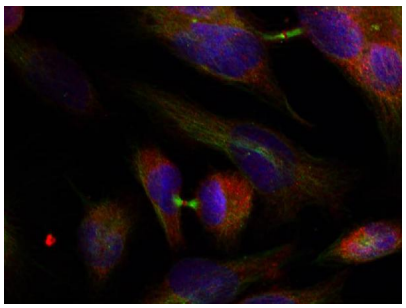


Figure 1. Western blot analysis of MAP2K3 using anti-MAP2K3 antibody (A02916).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-MAP2K3 antigen affinity purified polyclonal antibody (Catalog # A02916) 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-Rabbit 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 # SA1022) with Tanon 5200 system. A specific band was detected for MAP2K3.



Immunofluorescence staining of methanol-fixed Hela cells using MKK3(Ab-189) Antibody #A02916.

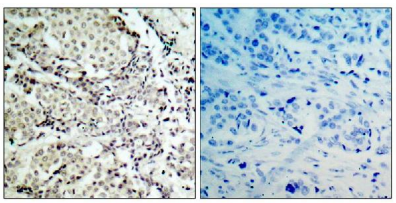


Figure 2. IHC analysis of MAP2K3 using anti-MAP2K3 antibody (A02916).
MAP2K3 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MAP2K3 Antibody (A02916) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

1 Publications Citing This Product

1. PubMed ID: 24112539, Xu G, Zhang Y, Wei J, Jia W, Ge Z, Zhang Z, Liu X. Bmc Cancer. 2013 Oct 10;13:469. Doi: 10.1186/1471-2407-13-469. Microrna-21 Promotes Hepatocellular Carcinoma Hepg2 Cell Proliferation Through Repression Of Mitogen-Activated Protein Kinase-Kinase 3.

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