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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-MEK1 phosphoS222/MEK2 phosphoS226 Monoclonal Antibody

Catalog Number: MP00292

About MAP2K1/MAP2K2

MEK1 pS222/MEK2 pS226 antibody detects MEK1 and MEK2. Mitogen-activated protein kinase kinase 1, (also known as MKK or MEK1), and Mitogen-activated protein kinase kinase 2, (also known as MEK2 or MKK2), are integral components of the MAP kinase cascade that regulates cell growth and differentiation. This pathway also plays a key role in synaptic plasticity in the brain. Activated MEK 1 and 2 acts as a dual specificity kinase phosphorylating both a threonine and a tyrosine residue on MAP kinase. The MEK1 antibody is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research.

Overview

Product Name	Anti-MEK1 phosphoS222/MEK2 phosphoS226 Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MEK1 phosphoS222/MEK2 phosphoS226 Monoclonal Antibody (Catalog # MP00292). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, WB
Clonality	Monoclonal Clone: 17C9.E1.H2.D7.H7.D5
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. This product is stable at 4°C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Mouse
Uniprot ID	Q02750

Technical Details

Immunogen	Anti-MEK1 pS222/MEK2 pS226 Monoclonal Antibody was produced in mice by repeated immunizations with synthetic peptide corresponding to amino acid residues surrounding the S222-226 phosphorylation site conjugated to KLH.
Predicted Reactive Species	Hepatitis Virus
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG1 lambda
Form	Liquid (sterile filtered)
Concentration	1.0 mg/mL by UV absorbance at 280 nm

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Purification	This protein A purified mouse monoclonal antibody specifically binds to the human MEK1 pS222 and MEK2 pS226 phosphorylated sites. Anti-MEK1 pS222/MEK2 pS226 is purified from tissue culture supernatant by protein A purification. Cross-reactivity is expected to occur with human, mouse, and rat based on sequence identity of the peptide immunogen.
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: ELISA: 1:40,000 WB: User optimized

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Anti-MEK1 phosphoS222/MEK2 phosphoS226 Monoclonal Antibody (MP00292) Images

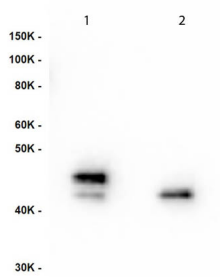

Figure 1. Western blot analysis of MAP2K1/MAP2K2 using anti-MAP2K1/MAP2K2 antibody (MP00292).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, 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-MAP2K1/MAP2K2 antigen affinity purified polyclonal antibody (Catalog # MP00292) 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 # SA1021) with Tanon 5200 system. A specific band was detected for MAP2K1/MAP2K2.