

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

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| 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

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| 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 | ELISA: 1:40,000 WB: User optimized Anti-MEK1 pS222/MEK2 pS226 (MOUSE) antibody has been tested in ELISA and Western Blot. Specific conditions of reactivity should be optimized by the end user. Expect a band of approximately 43.5 kDa. |

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