



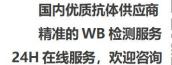
## MEK-1/2 (phospho Ser222/226) Monoclonal Antibody

Catalog No         BYmab-14323           Isotype         IgG           Reactivity         Human;Mouse;Rat           Applications         WB           Gene Name         MAPZK1/MAP2K2           Protein Name         Dual specificity mitogen-activated protein kinase kinase 1/2           Immunogen         The antiserum was produced against synthesized peptide derived from human McK1/2 around the phosphorylation site of Ser221. AA range:193-242           Specificity         Phospho-MEK-1/2 (S22/226) Monoclonal Antibody detects endogenous levels of MEK-1/2 protein only when phosphorylated at S222/226.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Monoclonal, Mouse,IgG           Purification         The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB 1:500-2000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20*C/1 year           Synonyms         MAPZK1; MEK1; PRKMK1; Dual specificity mitogen-activated protein kinase kinase 1; MAP kinase kinase 1; MAPKK 1; MKK1; ERK activator kinase 1; MAPK/ERK kinase 1; MEK 1; MAPZK2; MEK2; MKK2; PRKMK2; Dual specificity mitogen-activated protein k           Observed Band         44kD           Cell Pathway         Cytoplasm, cytoskeleton,		
Reactivity Human;Mouse;Rat  Applications WB  Gene Name MAP2K1/MAP2K2  Protein Name Dual specificity mitogen-activated protein kinase kinase 1/2  Immunogen The antiserum was produced against synthesized peptide derived from human MEK1/2 around the phosphorylation site of Ser221. AA range:193-242  Specificity Phospho-MEK-1/2 (S222/226) Monoclonal Antibody detects endogenous levels of MEK-1/2 protein only when phosphorylated at S222/226.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse, IgG  Purification The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-2000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms MAP2K1; MEK1; PRKMK1; Dual specificity mitogen-activated protein kinase kinase 1; MAP kinase kinase 1; MAPKK 1; MKK1; ERK activator kinase 1; MAPKinase 1; MEK 1; MAPZK2; MEK2; MKK2; PRKMK2; Dual specificity mitogen-activated protein k  Observed Band 44kD  Cell Pathway Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, microtubule organizing center, spindle pole body . Cytoplasm . Vucleus . Membrane : Peripheral membrane protein . Localization is probably regulated by its interaction with KSR1 (PubMed:10409742).  Tissue Specificity Widely expressed, with extremely low levels in brain.  MAP2K1 are a cause of cardiofaciocutaneous syndrome (CFC syndrome)	Catalog No	BYmab-14323
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is characterized by a distinctive facial appearance, heart defects and mental
retardation. Heart defects include pulmonic stenosis, atrial septal defects and
hypertrophic cardiomyopathy. Some affected individuals present with ectodermal
abnormalities such as sparse, friable hair, hyperkeratotic skin lesions and a
generalized ichthyosis-like condition. Typical facial features are similar to Noonan
syndrome. They include high forehead with bitemporal constriction, hypoplastic
supraorbital ridges, downslanting palpebral fissures, a depressed nasal bridge,
and posteriorly angulated ears with prominent helices. The inheritance of CFC
syndrome is autosomal dominant.,enzyme reg

## **Background**

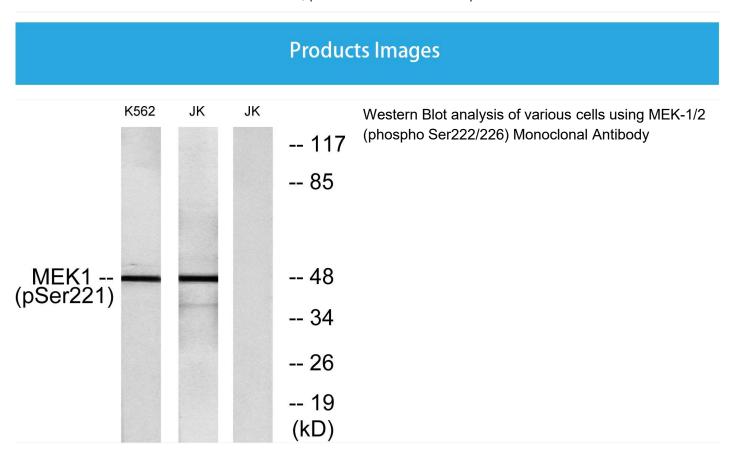
The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. [provided by RefSeq, Jul 2008],

## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



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