

Datasheet for 600-401-C84**MEK1/2 phosphoS218/pS222 Antibody****Overview**

Description:	Anti-MEK1/2 pS218/pS222 (Rabbit) Antibody - 600-401-C84
Item No.:	600-401-C84
Size:	100 µL
Applications:	WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	MEK 1/2 pS218/pS222 antibodies detect MEK 1. MAP Kinase Kinase, also known as MKK or MEK, is an integral component 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 acts as a dual specificity kinase phosphorylating both a threonine and a tyrosine residue on MAP kinase. Therefore, MEK1/2 pS218/pS222 antibody is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research
Synonyms:	Dual specificity mitogen-activated protein kinase kinase 1, MAPKK 1, ERK activator kinase 1, MAPK/ERK kinase 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MAP2K1/MAP2K2
Reactivity:	Human, Mouse
PTM Specificity:	Dual Modification
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-MEK 1/2 pS218/pS222 Antibody was produced in rabbit by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser218/222 conjugated to KLH.
Purity/Specificity:	Anti-MEK 1/2 pS218/pS222 antibodies is directed against MEK protein phosphorylated at pS218 and pS222. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. Expect reactivity with the following species based on sequence homology: bovine, canine, chicken, non-human primate, rat, Xenopus, and zebra fish. Cross reactivity with MEK 1/2 pS218/pS222 from other species has not been determined.
Relevant Links:	• NCBI - NP_002746.1 • UniProtKB - Q02750 • GeneID - 5604

Application Details

Tested Applications:	WB
Application Note:	Anti-MEK 1/2 pS218/pS222 (Rabbit) antibody is tested for use in Western Blotting. Specific conditions of reactivity should be optimized by the end user. Expect a band of approximately 45 kDa in size corresponding to the MEK 1/2 proteins phosphorylated at Ser218/222.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

Formulation

Physical State:	Liquid
Concentration:	Titred value sufficient to run approximately 10 mini blots.
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

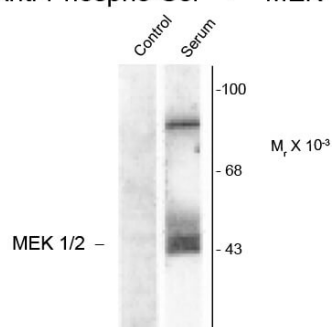
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition:	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:	Expiration date is one (1) year from date of receipt.

Images

Anti-Phospho-Ser^{218,222} MEK 1/2



Western blot of NIH 3T3 cell lysates. The cells were serum starved (control) or incubated in the presence of serum (serum) for 5 minutes. The western blot shows the immunolabeling of the ~45k MEK1/2 was absent in control and stimulated by serum.

Western Blot

Western Blot of Rabbit anti-MEK1/2 pS218/222 Antibody. Lane 1: NIH 3T3 cell lysates serum starved. Lane 2: NIH 3T3 cell lysates incubated in the presence of serum. Load: 10 µg per lane. Primary antibody: MEK 1/2 pS218/222 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~45kDa for MEK 1/2 protein phosphorylated at Ser218 and Ser222. Other band(s): additional band at ~95k was also observed.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.