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Datasheet for 600-401-D73

MEK1 phospho T386 Antibody

Overview

Description:	Anti-MEK1 pT386 (RABBIT) Antibody - 600-401-D73
Item No.:	600-401-D73
Size:	100 µL
Applications:	WB
Reactivity:	Human, Rat
Host Species:	Rabbit

Product Details

Background:	MEK1 pT386 antibody is directed against human MEK 1 phosphorylated against Thr386. MEK also known as MAP Kinase Kinase and MKK, 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. Conversely, there also appears to be a feedback phosphorylation of MEK 1 by MAP kinase. The sites on MEK 1 that are phosphorylated by MAP kinase are Thr292 and Thr386. MEK1 pT386 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
Reactivity:	Human, Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-MEK1 pT386 Antibody was produced in rabbit by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Thr 386 conjugated to KLH.
Purity/Specificity:	Anti-MEK1 pT386 antibodies are 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. The immunolabeling is completely eliminated by treatment with lambda-phosphatase. Expect reactivity with the following species based on sequence homology: bovine, canine, chicken, mouse, non-human primates and Xenopus. Cross reactivity with MEK1 pT386 from other species has not been determined.
Relevant Links:	• UniProtKB - Q02750 • GeneID - 5604 • NCBI - AAI39730.1

Application Details

Tested Applications:	WB
Application Note:	Anti-MEK1 pT386 (Rabbit) antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 45 kDa in size corresponding to the MEK1 protein phosphorylated at Thr386 in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

Formulation

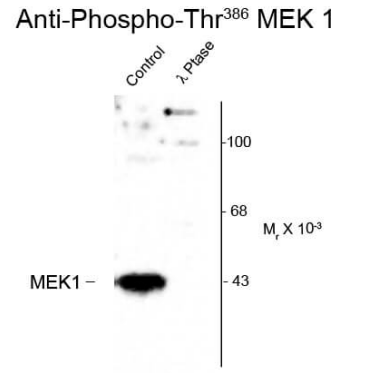
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
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



Western blot of human T47D cells showing phospho-specific immunolabeling of the ~45k MEK1 protein phosphorylated at Thr386.

Western Blot
Western Blot of Rabbit Anti-MEK1 pT386 antibody. Lane 1: human T47D cells. Lane 2: human T47D cells incubated in λ Ptase (1200 units for 30 min). Load: 10 µg per lane. Primary antibody: MEK1 pT386 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: 45 kDa, 45 kDa for MEK 1. Other band(s): none.

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