

Datasheet for 600-401-D72**MEK1 phospho T292 Antibody****Overview**

Description:	Anti-MEK1 pT292 (RABBIT) Antibody - 600-401-D72
Item No.:	600-401-D72
Size:	100 µL
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	MEK1 pT292 antibody detects MEK1 phosphorylated at Thr292. MEK 1 (MAP kinase kinase, also known as 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. Therefore, MEK1 pT292 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
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-MEK1 pT292 Antibody was produced in rabbit by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Thr292 conjugated to KLH.
Purity/Specificity:	MEK1 pT292 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, human, mouse, non-human primates and rat. Cross reactivity with MEK1 pT292 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 pT292 (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 MEK 1 protein phosphorylated at Thr292 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

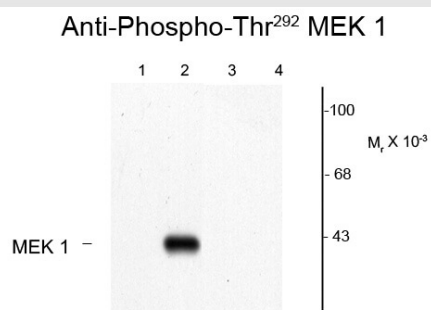
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

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 blots of recombinant wild type and mutant MEK 1 showing phospho-specific immunolabeling. Lanes 1 and 2 are wild type MEK 1; lanes 3 and 4 are mutant MEK 1 (Thr²⁹²Arg). MAP kinase was coexpressed in the samples run in lanes 2 and 4.

Western Blot

Western Blot of Rabbit anti-MEK1 pT292 antibody. Lane 1: recombinant MEK 1 wild type. Lane 2: recombinant MEK 1 wild type with MAP kinase. Lane 3: mutant MEK 1. Lane 4: mutant MEK 1 with MAP kinase. Load: 10 µg per lane. Primary antibody: MEK1 pT292 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 MEK1 pT292. Other band(s): none.

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.