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# Datasheet for ABIN6255658 anti-MEK1 antibody (pThr292)

3 Images



## Overview

Quantity:	100 μL
Target:	MEK1 (MAP2K1)
Binding Specificity:	pThr292
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

# Product Details

Immunogen:	A synthesized peptide derived from human MEK1 around the phosphorylation site of Thr292.
Isotype:	lgG
Specificity:	Phospho-MEK1 (Thr292) Antibody detects endogenous levels of MEK1 only when phosphorylated at Threonine 292.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

# Target Details

Target:

MEK1 (MAP2K1)

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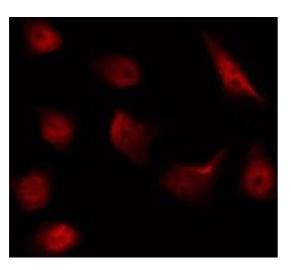
Target Details	
Alternative Name:	MAP2K1 (MAP2K1 Products)
Background:	Description: Dual specificity protein kinase which acts as an essential component of the MAP
	kinase signal transduction pathway. Binding of extracellular ligands such as growth factors,
	cytokines and hormones to their cell-surface receptors activates RAS and this initiates RAF1
	activation. RAF1 then further activates the dual-specificity protein kinases MAP2K1/MEK1 and
	MAP2K2/MEK2. Both MAP2K1/MEK1 and MAP2K2/MEK2 function specifically in the
	MAPK/ERK cascade, and catalyze the concomitant phosphorylation of a threonine and a
	tyrosine residue in a Thr-Glu-Tyr sequence located in the extracellular signal-regulated kinases
	MAPK3/ERK1 and MAPK1/ERK2, leading to their activation and further transduction of the
	signal within the MAPK/ERK cascade. Depending on the cellular context, this pathway mediate
	diverse biological functions such as cell growth, adhesion, survival and differentiation,
	predominantly through the regulation of transcription, metabolism and cytoskeletal
	rearrangements. One target of the MAPK/ERK cascade is peroxisome proliferator-activated
	receptor gamma (PPARG), a nuclear receptor that promotes differentiation and apoptosis.
	MAP2K1/MEK1 has been shown to export PPARG from the nucleus. The MAPK/ERK cascade
	is also involved in the regulation of endosomal dynamics, including lysosome processing and
	endosome cycling through the perinuclear recycling compartment (PNRC), as well as in the
	fragmentation of the Golgi apparatus during mitosis.
	Gene: MAP2K1
Molecular Weight:	45kDa
Gene ID:	5604
UniProt:	Q02750
Pathways:	MAPK Signaling, RTK Signaling, Interferon-gamma Pathway, Fc-epsilon Receptor Signaling
	Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-Like
	Receptors Cascades, Autophagy, Signaling of Hepatocyte Growth Factor Receptor, BCR
	Signaling
Application Details	
Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid

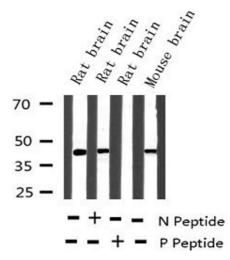
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# Handling

Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %
	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

# Images





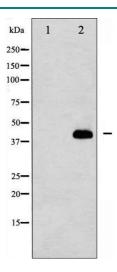
## Immunofluorescence (fixed cells)

**Image 1.** ABIN6267592 staining NIH-3T3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

#### Western Blotting

**Image 2.** Western blot analysis of Phospho-MEK1 (Thr291) expression in various lysates

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#### Western Blotting

**Image 3.** Western blot analysis of MEK1 phosphorylation expression in K562 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.

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