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Datasheet for ABIN7127612 Recombinant anti-MEK1 antibody

3 Images



Overview

Quantity:	100 µL
Target:	MEK1 (MAP2K1)
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This MEK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	A synthesized peptide derived from human MEK1
Clone:	3F10
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

Target Details

Target:	MEK1 (MAP2K1)
Alternative Name:	MAP2K1 (MAP2K1 Products)
Background:	Background: Dual specificity protein kinase which acts as an essential component of the MAP

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	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 mediates
	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.
	Aliases: Dual specificity mitogen-activated protein kinase kinase 1 (MAP kinase kinase 1)
	(MAPKK 1) (MKK1) (EC 2.7.12.2) (ERK activator kinase 1) (MAPK/ERK kinase 1) (MEK 1),
	MAP2K1, MEK1 PRKMK1
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:	Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IP:1:200-1:1000,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 $\%$
	glycerol.

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Handling

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,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images





Immunohistochemistry

Image 1. IHC image of ABIN7127612 diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05 % DAB.

Western Blotting

Image 2. Western Blot Positive WB detected in: Hela whole cell lysate, 293 whole cell lysate, A549 whole cell lysate, U87 whole cell lysate All lanes: MAP2K1 antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 44, 41 kDa Observed band size: 44 kDa

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Western Blotting

Image 3. Immunoprecipitating MAP2K1 in Hela whole cell Iysate Lane 1: Rabbit control IgG instead of ABIN7127612 in Hela whole cell Iysate. For western blotting,a HRPconjugated Protein G antibody was used as the secondary antibody (1/2000) Lane 2: ABIN7127612(2 µg)+ Hela whole cell Iysate(500 µg) Lane 3: Hela whole cell Iysate (10 µg)

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