Datasheet for ABIN5706743

anti-MEK1 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	MEK1 (MAP2K1)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	MEK1 C-Term Antibody
Immunogen:	Immunogen: Anti-MEK1 Antibody was produced in rabbits by repeated immunizations with synthetic peptide corresponding to amino acid residues near the C-terminus conjugated to KLH. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against human MEK1 protein.
Characteristics:	Synonyms: rabbit anti-MEK1 antibody, Dual specificity mitogen-activated protein kinase kinase 1, MAP kinase kinase 1, MAPKK 1, MAP2K1, MEK, MEK 1, MKK1, PRKMK1, MEK-1, ERK activator kinase 1, MAPK/ERK kinase 1
Purification:	Anti-MEK1 antibody was prepared from monospecific antiserum by immunoaffinity

Product Details

	chromatography using synthetic peptide coupled to agarose beads.
Sterility:	Sterile filtered

Target Details

Target:	MEK1 (MAP2K1)
Alternative Name:	MAP2K1 (MAP2K1 Products)
Background:	Background: MEK1 antibodies detect the MEK1 isoform. Mitogen-activated protein kinase kinase 1, 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. The MEK1 antibody is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research.
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:	Immunohistochemistry Dilution: 1:100 Application Note: Anti-MEK 1 (RABBIT) antibody is tested in ELISA, Western Blotting, and IHC. Specific conditions of reactivity should be optimized by the end user. Expect a band of approximately 43.5 kDa. Western Blot Dilution: 1 µg/mL ELISA Dilution: 1:40,000
Restrictions:	For Research Use only

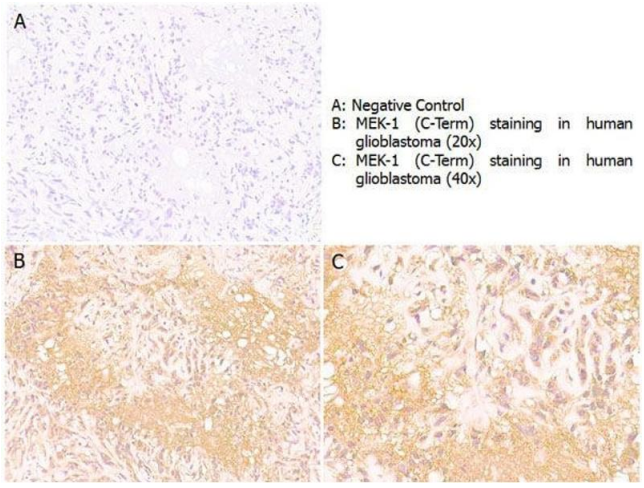
Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None

Handling

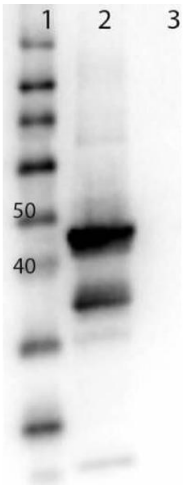
	Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. This product is stable 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.
Expiry Date:	12 months

Images



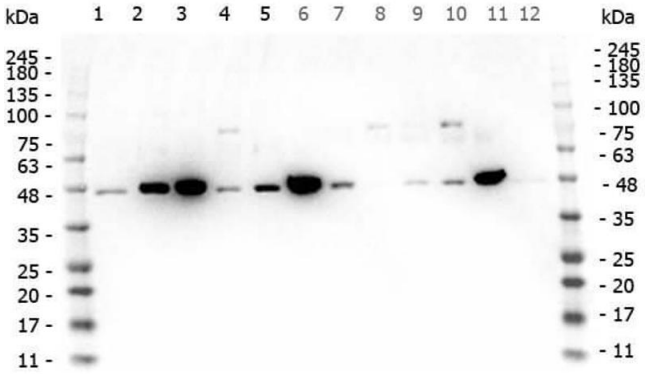
Immunohistochemistry

Image 1. Immunohistochemistry with anti-MEK1 (C-Term) antibody showing positive staining in human glioblastoma tissue at 20x and 40x (B & C). Staining was performed on Leica Bond system using the standard protocol. Formalin fixed/paraffin embedded tissue sections were subjected to antigen retrieval and then incubated with rabbit anti-MEK1 (C-Term) antibody 600-401-GQ0 at 1:100 dilution for 60 minutes. Biotinylated Anti-rabbit secondary antibody was used at 1:200 dilution to detect primary antibody. The reaction was developed using streptavidin-HRP conjugated compact polymer system and visualized with chromogen substrate, 3'3-diamino-benzidine substrate (DAB). The sections were then counterstained with hematoxylin to detect cell nuclei.



Western Blotting

Image 2. Western Blot of Anti-MEK1 Antibody. Lane 1: Molecular Weight Marker. Lane 2: MEK1 recombinant lysate. Lane 3: MEK2 recombinant lysate. Load: 10 µg. Primary Antibody: Anti-MEK1 (c-term) at 1 µg/mL overnight at 4 °C. Secondary Antibody: Goat anti-Rabbit peroxidase conjugated antibody at 1:40,000 for 30 minutes RT. Blocking: BlockOut Universal Blocking buffer (p/n MB-073). Predicted Size: 43.5 kDa.



Western Blotting

Image 3. Western Blot of Rabbit anti-MEK1 antibody. Marker: Opal Pre-stained ladder (p/n MB-210-0500). Lane 1: HEK293 lysate (p/n W09-000-365). Lane 2: HeLa Lysate (p/n W09-000-364). Lane 3: MCF-7 Lysate (p/n W09-000-360). Lane 4: Jurkat Lysate (p/n W09-000-370). Lane 5: A431 Lysate (p/n W09-000-361). Lane 6: A549 Lysate (p/n W09-001-372). Lane 7: LNCap Lysate (p/n W09-001-GJ9). Lane 8: MOLT-4 Lysate (p/n W09-001-GK2). Lane 9: Ramos Lysate (p/n W09-000-GK4). Lane 10: Raji Lysate (p/n W09-001-368). Lane 11: A-172 Lysate (p/n W09-001-GL5). Lane 12: NIH/3T3 Lysate (p/n W10-000-358). Load: 35 µg per lane. Primary antibody: MEK1 antibody at 1 µg/mL overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:30,000 for 60 min at RT. Blocking Buffer: 1 % Casein-TTBS (p/n B501-0500) for 30 min at RT. Predicted/Observed size: 43 kDa for MEK1.