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Datasheet for ABIN7150697  
**anti-MEK1 antibody (AA 2-79)**

3 Images

Overview

Quantity:	100 µg
Target:	MEK1 (MAP2K1)
Binding Specificity:	AA 2-79
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human Dual specificity mitogen-activated protein kinase kinase 1 protein (2-79AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

Target Details

Target:	MEK1 (MAP2K1)
Alternative Name:	MAP2K1 ( <a href="#">MAP2K1 Products</a> )
Background:	Background: Dual specificity protein kinase which acts as an essential component of the MAP

## Target Details

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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 antibody, Dual specificity mitogen-activated protein kinase kinase 1 antibody, ERK activator kinase 1 antibody, MAP kinase kinase 1 antibody, MAP kinase/Erk kinase 1 antibody, MAP2K1 antibody, MAPK/ERK kinase 1 antibody, MAPKK 1 antibody, MAPKK1 antibody, MEK 1 antibody, Mek1 antibody, MEKK1 antibody, Mitogen activated protein kinase kinase 1 antibody, MKK 1 antibody, MKK1 antibody, MP2K1\_HUMAN antibody, PRKMK1 antibody, Protein kinase mitogen activated kinase 1 (MAP kinase kinase 1) antibody, Protein kinase mitogen activated, kinase 1 antibody, protein kinase mitogen-activated kinase 1 antibody

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UniProt: [Q02750](#)

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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

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Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:200-1:500,

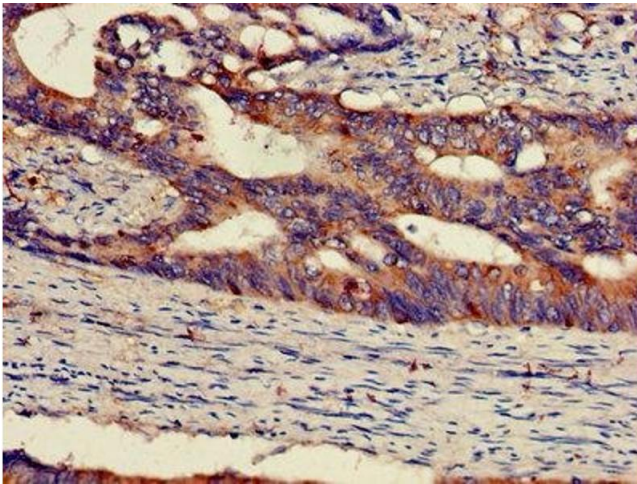
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Restrictions: For Research Use only

## Handling

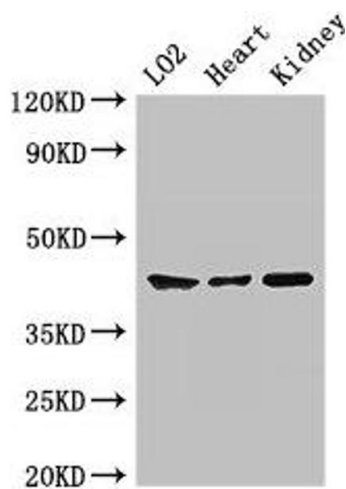
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



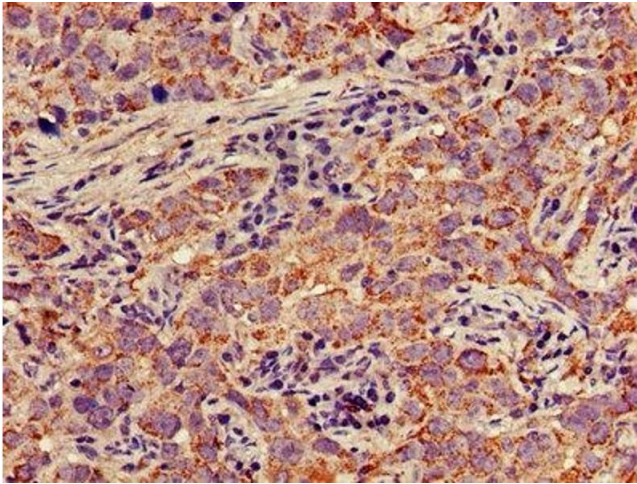
### Immunohistochemistry

**Image 1.** IHC image of ABIN7150697 diluted at 1:300 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ 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 biotinylated secondary antibody and visualized using an HRP conjugated SP system.



### Western Blotting

**Image 2.** Western Blot Positive WB detected in: LO2 whole cell lysate, Mouse heart tissue, Mouse kidney tissue All lanes: MAP2K1 antibody at 2 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 44, 41 kDa Observed band size: 44 kDa



### Immunohistochemistry

**Image 3.** IHC image of ABIN7150697 diluted at 1:300 and staining in paraffin-embedded human pancreatic cancer performed on a Leica Bond™ 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 biotinylated secondary antibody and visualized using an HRP conjugated SP system.