

Datasheet for ABIN1882177
anti-MEK1 antibody (N-Term)



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Overview

Quantity:	400 µL
Target:	MEK1 (MAP2K1)
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This MEK1 (MAP2K1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human MEK1 (MAP2K1).
Clone:	RB0924
Isotype:	Ig Fraction
Predicted Reactivity:	M, Rb, Rat
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	MEK1 (MAP2K1)
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Target Details

Alternative Name: MEK1 (MAP2K1) ([MAP2K1 Products](#))

Background: MEK1 is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development.

Molecular Weight: 43439

NCBI Accession: [NP_002746](#)

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: 1:1000. IHC-P: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified monoclonal antibody supplied in PBS with 0.09 % (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

Expiry Date: 6 months

Publications

Product cited in: Luo, Zhao, Shi, Feng, Chen, Li: "Induction of Apoptosis in Human Leukemic Cell Lines by Diallyl

Disulfide via Modulation of EGFR/ERK/PKM2 Signaling Pathways." in: **Asian Pacific journal of cancer prevention : APJCP**, Vol. 16, Issue 8, pp. 3509-15, (2015) ([PubMed](#)).

Zheng, Fiumara, Li, Georgakis, Snell, Younes, Vauthey, Carbone, Younes: "MEK/ERK pathway is aberrantly active in Hodgkin disease: a signaling pathway shared by CD30, CD40, and RANK that regulates cell proliferation and survival." in: **Blood**, Vol. 102, Issue 3, pp. 1019-27, (2003) ([PubMed](#)).

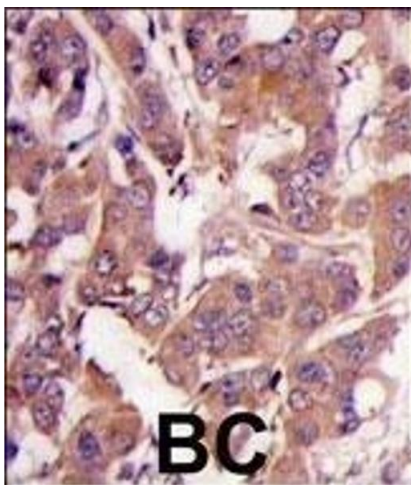
Li, Junttila, Han, Kähäri, Westermarck: "p38 Mitogen-activated protein kinase pathway suppresses cell survival by inducing dephosphorylation of mitogen-activated protein/extracellular signal-regulated kinase kinase1,2." in: **Cancer research**, Vol. 63, Issue 13, pp. 3473-7, (2003) ([PubMed](#)).

Zhu, Sun, Lee, Siedlak, Perry, Smith: "Distribution, levels, and activation of MEK1 in Alzheimer's disease." in: **Journal of neurochemistry**, Vol. 86, Issue 1, pp. 136-42, (2003) ([PubMed](#)).

Fringer, Grinnell: "Fibroblast quiescence in floating collagen matrices: decrease in serum activation of MEK and Raf but not Ras." in: **The Journal of biological chemistry**, Vol. 278, Issue 23, pp. 20612-7, (2003) ([PubMed](#)).

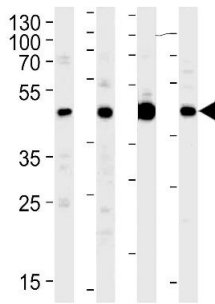
There are more publications referencing this product on: [Product page](#)

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with MEK1 Antibody (N-term) (ABIN1882177 and ABIN2842020), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. MEK1 Antibody (M1) (ABIN1882177 and ABIN2842020) western blot analysis in Jurkat, PC-12, rat C6 cell line and mouse brain lysates (35 µg/lane). This demonstrates the MEK1 antibody detected the MEK1 protein (arrow).