

Datasheet for ABIN1881525
anti-MEK1 antibody (AA 270-299)



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Overview

Quantity:	400 µL
Target:	MEK1 (MAP2K1)
Binding Specificity:	AA 270-299
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 MAP2K1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 270-299 amino acids from human MAP2K1.
Clone:	RB11151
Isotype:	Ig Fraction
Predicted Reactivity:	Ha, M, Rb, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	MEK1 (MAP2K1)
Alternative Name:	MAP2K1 (MAP2K1 Products)

Target Details

Background:	MAP2K1 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 polyclonal 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:	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
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that regulates cell proliferation and survival." in: **Blood**, Vol. 102, Issue 3, pp. 1019-27, (2003) ([PubMed](#)).

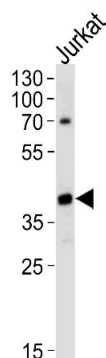
Li, Junttila, Han, Kähäri, Westermarck: "p38 Mitogen-activated protein kinase pathway suppresses cell survival by inducing dephosphorylation of mitogen-activated protein/extracellular signal-regulated kinase kinase1,2." in: **Cancer research**, Vol. 63, Issue 13, pp. 3473-7, (2003) ([PubMed](#)).

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](#)).

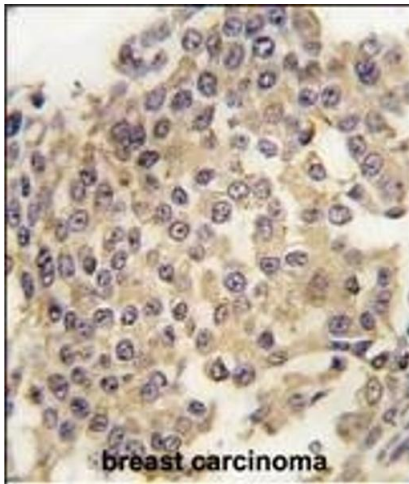
Witowsky, Johnson: "Ubiquitylation of MEKK1 inhibits its phosphorylation of MKK1 and MKK4 and activation of the ERK1/2 and JNK pathways." in: **The Journal of biological chemistry**, Vol. 278, Issue 3, pp. 1403-6, (2003) ([PubMed](#)).

Images



Western Blotting

Image 1. P2K1 Antibody (p) (ABIN1881525 and ABIN2842060) western blot analysis in Jurkat cell line lysates (35 µg/lane). This demonstrates the P2K1 antibody detected the P2K1 protein (arrow).



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Forlin-fixed and paraffin-embedded human breast carcinoma tissue reacted with P2K1 Antibody (ABIN1881525 and ABIN2842060), 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.