



Datasheet for ABIN1882178
anti-MEK2 antibody (N-Term)



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Overview

Quantity:	400 µL
Target:	MEK2 (MAP2K2)
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	This MEK2 (MAP2K2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human MEK2 (MAP2K2).
Clone:	RB3595
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	MEK2 (MAP2K2)
Alternative Name:	MEK2 (MAP2K2) (MAP2K2 Products)

Target Details

Background:	MAP2K2 is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. The inhibition or degradation of this kinase is found to be involved in the pathogenesis of Yersinia and anthrax.
Molecular Weight:	44424
NCBI Accession:	NP_109587
UniProt:	P36507
Pathways:	MAPK Signaling , RTK Signaling , Fc-epsilon Receptor Signaling Pathway , Neurotrophin Signaling Pathway , Activation of Innate immune Response , Toll-Like Receptors Cascades , Signaling of Hepatocyte Growth Factor Receptor , BCR Signaling

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. WB: 1:1000
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:	Burroughs, Oh, Barrett, DiAugustine et al.: "Phosphatidylinositol 3-kinase and mek1/2 are necessary for insulin-like growth factor-I-induced vascular endothelial growth factor synthesis in prostate epithelial cells: a role for hypoxia-inducible ..." in: Molecular cancer research : MCR , Vol. 1, Issue 4, pp. 312-22, (2003) (PubMed).
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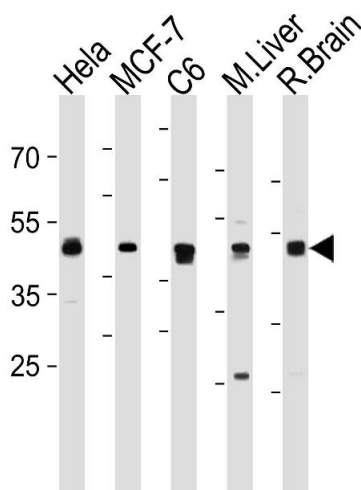
Tran, Maurer, Nagamine: "Stabilization of urokinase and urokinase receptor mRNAs by HuR is linked to its cytoplasmic accumulation induced by activated mitogen-activated protein kinase-activated protein kinase 2." in: **Molecular and cellular biology**, Vol. 23, Issue 20, pp. 7177-88, (2003) ([PubMed](#)).

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](#)).

Li, Inoki, Vacratsis, Guan: "The p38 and MK2 kinase cascade phosphorylates tuberin, the tuberous sclerosis 2 gene product, and enhances its interaction with 14-3-3." in: **The Journal of biological chemistry**, Vol. 278, Issue 16, pp. 13663-71, (2003) ([PubMed](#)).

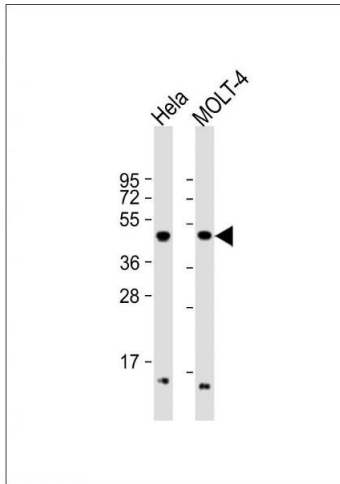
Liu, Jana, Dasgupta, Koka, He, Wood, Pahan: "Human immunodeficiency virus type 1 (HIV-1) tat induces nitric-oxide synthase in human astroglia." in: **The Journal of biological chemistry**, Vol. 277, Issue 42, pp. 39312-9, (2002) ([PubMed](#)).

Images



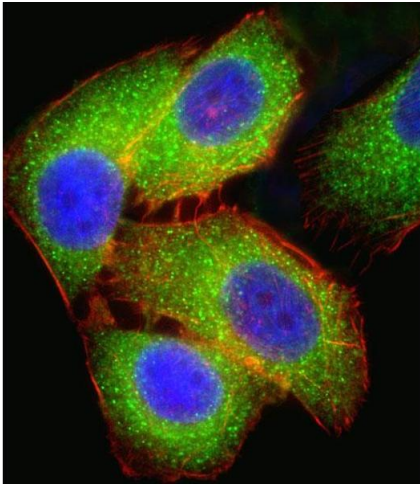
Western Blotting

Image 1. MEK2 (P2K2) Antibody (N-term) (ABIN1882178 and ABIN2842061) western blot analysis in Hela, MCF-7, rat C6 cell line and mouse Liver, rat Brain tissue lysates (35 μg/lane). This demonstrates the MEK2 (P2K2) antibody detected the MEK2 (P2K2) protein (arrow).



Western Blotting

Image 2. All lanes : Anti-MEK2 (P2K2) Antibody (N-term) at 1:1000 dilution Lane 1: HeLa whole cell lysate Lane 2: MOLT-4 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5 % NFDN/TBST.



Immunofluorescence

Image 3. Fluorescent confocal image of cell stained with MEK2 (P2K2) Antibody (N-term) (ABIN1882178 and ABIN2842061). cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with MEK2 (P2K2) primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C). Nuclei were counterstained with DAPI (blue) (10 µg/mL, 10 min). MEK2 (P2K2) immunoreactivity is localized to Cytoplasm significantly.