Datasheet for ABIN3020794

# anti-MEK1 antibody (AA 1-100)

5 Images | 1 Publication

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## Overview

| | |
|---|---|
| Quantity: | 100 µL |
| Target: | MEK1 (MAP2K1) |
| Binding Specificity: | AA 1-100 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This MEK1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF) |

## Product Details

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|---|---|
| Immunogen: | A synthetic peptide corresponding to a sequence within amino acids 1-100 of human MEK1 (NP_002746.1). |
| Sequence: | MPKKKPTPIQ LNPAPDGSAV NGTSSAETNL EALQKKLEEL ELDEQQRKRL EAFLTQKQKV GELKDDDFEK ISELGAGNGG VVFKVSHKPS GLVMARKLIH |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Characteristics: | Polyclonal Antibodies |
| Purification: | Affinity purification |

## Target Details

| | |
|---|---|
| Target: | MEK1 (MAP2K1) |
| Alternative Name: | MAP2K1 (MAP2K1 Products) |
| Background: | The protein encoded by this gene 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.,CFC3,MAPKK1,MEK1,MKK1,PRKMK1,MAP2K1,Signal Transduction,G protein signaling,G2/M DNA Damage Checkpoint,Kinase,Tyrosine kinases,ErbB-HER Signaling Pathway,MAPK-Erk Signaling Pathway,Cell Biology & Developmental Biology,Cytoskeleton,Actins,ESC Pluripotency and Differentiation,Endocrine & Metabolism,Insulin Receptor Signaling Pathway,Warburg Effect,Immunology & Inflammation,B Cell Receptor Signaling Pathway,T Cell Receptor Signaling Pathway,IL-6 Receptor Signaling Pathway,Neuroscience,Neurodegenerative Diseases,Cardiovascular,Angiogenesis,MAP2K1 |
| Molecular Weight: | 40 kDa/43 kDa |
| Gene ID: | 5604 |
| 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

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|---|---|
| Application Notes: | WB,1:500 - 1:2000,IF,1:50 - 1:100 |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |
| Buffer: | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3. |
| Preservative: | Sodium azide |

## Handling

| | |
|---|---|
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid freeze / thaw cycles |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. Avoid freeze / thaw cycles. |

## Publications

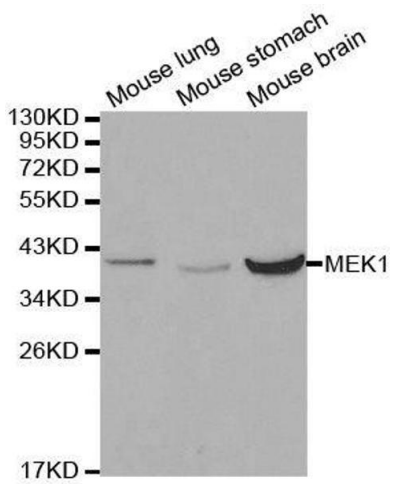
Product cited in:

Sidler, Aitken, Jiang, Sotiropoulos, Aggarwal, Anees, Chong, Siebenaller, Thanabalasingam, White, Choufani, Weksberg, Sangiorgi, Wrana, Delgado-Olguin, Bägli et al.: "DNA Methylation Reduces the Yes-Associated Protein 1/WW Domain Containing Transcription Regulator 1 Pathway and Prevents Pathologic Remodeling during Bladder Obstruction by Limiting Expression of ..." in: **The American journal of pathology**, Vol. 188, Issue 10, pp. 2177-2194, ( 2018) (PubMed).

Hang, Zhao, Sun, Li, Han, Du, Li: "Brain-derived neurotrophic factor attenuates doxorubicin-induced cardiac dysfunction through activating Akt signalling in rats." in: **Journal of cellular and molecular medicine**, Vol. 21, Issue 4, pp. 685-696, (2017) (PubMed).

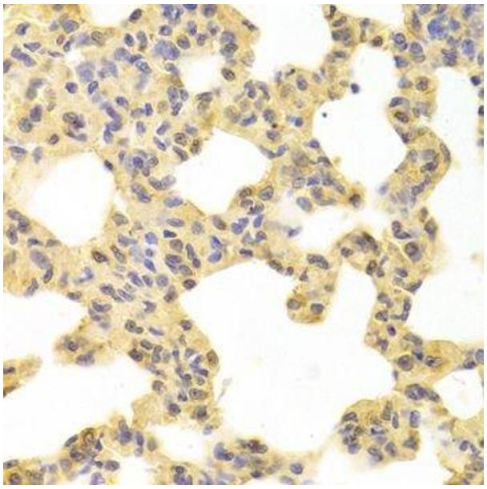
Hang, Sun, Guo, Zhao, Du: "BDNF-mediates Down-regulation of MicroRNA-195 Inhibits Ischemic Cardiac Apoptosis in Rats." in: **International journal of biological sciences**, Vol. 12, Issue 8, pp. 979-89, (2017) (PubMed).

## Images



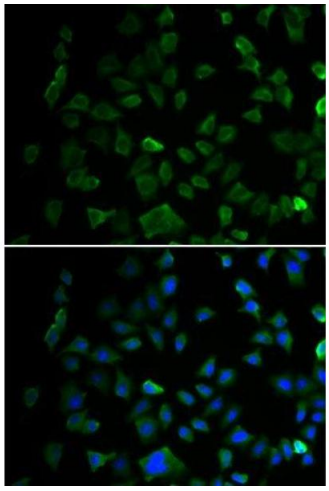

**Western Blotting**

**Image 1.** Western blot analysis of extracts of various cell lines, using MAP2K1 antibody.



**Immunohistochemistry (Paraffin-embedded Sections)**

**Image 2.** Immunohistochemistry of paraffin-embedded rat lung using MAP2K1 antibody.



**Immunofluorescence**

**Image 3.** Immunofluorescence analysis of U2OS cells using MAP2K1 antibody.

Please check the product details page for more images. Overall 5 images are available for ABIN3020794.