Datasheet for ABIN5706745

# anti-MEK2 antibody (C-Term)

3 Images

Go to Product page

## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | MEK2 (MAP2K2) |
| Binding Specificity: | C-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This MEK2 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), ELISA |

## Product Details

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|---|---|
| Purpose: | MEK2 C-Term Antibody |
| Immunogen: | Immunogen: Anti-MEK2 Antibody was produced in rabbits by repeated immunizations with synthetic peptide corresponding to amino acid residues near the C-terminus human MEK2 protein conjugated to KLH.<br>Immunogen Type: Conjugated Peptide |
| Isotype: | IgG |
| Cross-Reactivity (Details): | This affinity purified antibody is directed against human MEK2 protein. |
| Characteristics: | Synonyms: rabbit anti-MEK2 antibody, Dual specificity mitogen-activated protein kinase kinase 2, MAP kinase kinase 2, MAPKK 2, MAP2K2, MEK, MEK 2, MKK2, PRKMK2, CFC4, MEK-2, ERK activator kinase 2, MAPK/ERK kinase 2 |
| Purification: | Anti-MEK2 antibody was prepared from monospecific antiserum by immunoaffinity |

## Product Details

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| | chromatography using synthetic peptide coupled to agarose beads. |
| Sterility: | Sterile filtered |

## Target Details

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| Target: | MEK2 (MAP2K2) |
| Alternative Name: | MAP2K2 (MAP2K2 Products) |
| Background: | Background: MEK2 antibodies detect the MEK2 isoform. Mitogen-activated protein kinase kinase 2, also known as MEK2 or MKK2, is an integral component of the MAP kinase cascade that regulates cell growth and differentiation. This pathway also plays a key role in synaptic plasticity in the brain. Activated MEK 2 acts as a dual specificity kinase phosphorylating both a threonine and a tyrosine residue on MAP kinase. MEK1 and MEK2 are about 80 % identical to each other, and nearly identical within the kinase domain. The MEK2 antibody is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research. |
| 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

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| Application Notes: | Immunohistochemistry Dilution: 1:100<br>Application Note: Anti-MEK 2 (RABBIT) antibody has been tested in ELISA, Western Blotting, and IHC. Specific conditions of reactivity should be optimized by the end user. Expect a band of approximately 44 kDa.<br>Western Blot Dilution: 1.0 µg/mL<br>ELISA Dilution: 5.0 µg/mL |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |
| Concentration: | 1.0 mg/mL |
| Buffer: | Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2<br>Stabilizer: None |

## Handling

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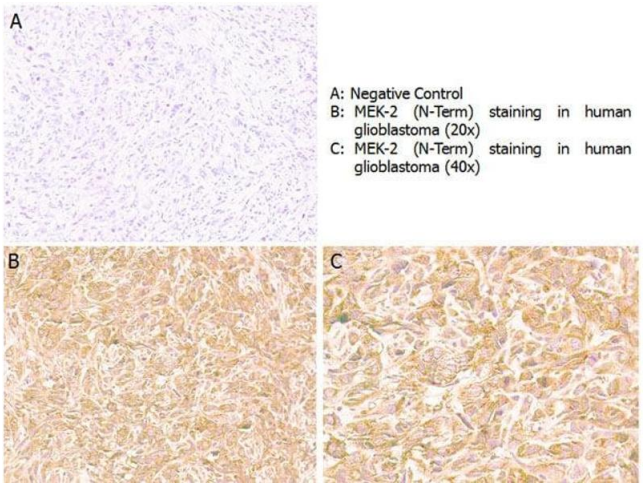
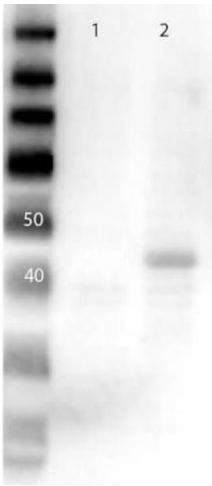
|---|---|
| | Preservative: 0.01 % (w/v) Sodium Azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. |
| Expiry Date: | 12 months |

## Images




**Immunohistochemistry**

**Image 1.** Immunohistochemistry with anti-MEK2 (N-Term) antibody showing positive staining in human glioblastoma tissue at 20x and 40x (B & C). Staining was performed on Leica Bond system using the standard protocol. Formalin fixed/paraffin embedded tissue sections were subjected to antigen retrieval and then incubated with rabbit anti-MEK2 (N-Term) antibody 600-401-GN8 at 1:100 dilution for 60 minutes. Biotinylated Anti-rabbit secondary antibody was used at 1:200 dilution to detect primary antibody. The reaction was developed using streptavidin-HRP conjugated compact polymer system and visualized with chromogen substrate, 3'3-diamino-benzidine substrate (DAB). The sections were then counterstained with hematoxylin to detect cell nuclei.




## Western Blotting

**Image 2.** Western Blot of Anti-MEK2 C-term Antibody. Lane 1: MEK1 rec lysate. Lane 2: MEK2 rec lysate. Load: 10 µg. Primary Antibody: Anti-MEK2 at 1 µg/mL overnight at 4 °C. Secondary Antibody: Goat Anti-Rabbit Peroxidase Conjugated Antibody (p/n 611-103-122) at 1:40,000 for 30 min at RT. Blocking: BlockOut Universal Blocking buffer (p/n MB-073). Predicted MW: 45 kDa.

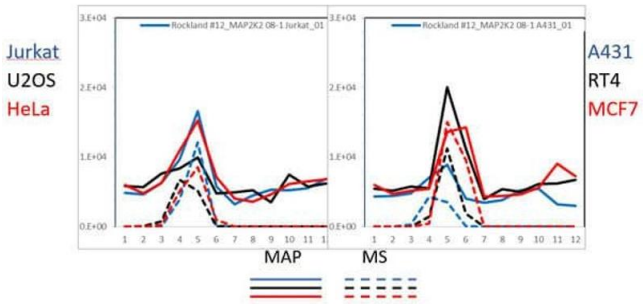



**Image 3.** PAGE-MAP (microsphere affinity proteomics) of Rabbit Anti-MEK2/MAP2K2 Antibody (Catalog Number: 600-401-GQ2, Lot Number: 36409). Antibody array western blot binding of gelfree size separated fractions of multiple lysates (solid lines) and shotgun mass spectroscopy identification (dashed lines) of the target band run in parallel correlate confirming the specificity of this antibody against MEK2/MAP2K2. Data was provided by the Lund-Johansen lab of Oslo University Hospital. For more information on PAGE-MAP/IP-MS identification of antibody specificity and its large-scale implementation for antibody validation see Sikorski et. al., (2018) Nature Methods 15, 909-912.