

Datasheet for ABIN3031846
anti-MAP3K1 antibody (C-Term)

3 Images

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Overview

Quantity:	100 µg
Target:	MAP3K1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP3K1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	An amino acid sequence from the C-terminus of human MEK kinase 1 (PEVLRGQQYGRSCDV) was used as the immunogen for this MAP3K1 antibody (100% homologous in human, mouse and rat).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	MAP3K1
Alternative Name:	MAP3K1 (MEKK1) (MAP3K1 Products)
Background:	Mitogen-activated protein kinase kinase kinase 1, also known as MEKK1, MAPKKK1, MEK Kinase or MAP/ERK Kinase Kinase 1, is an enzyme that in humans is encoded by the MAP3K1

Target Details

gene. Vinik et al.(1995) identified DNA sequence and size polymorphisms in intronic and 3-prime untranslated regions of the mouse gene and the human homolog. Using these allele-specific polymorphisms, they mapped the mouse gene in an intersubspecific backcross to chromosome 13. They mapped the human gene to chromosome 5 by somatic cell hybrid analysis. By assaying transfected COS-1 cells, Xia et al.(1998) showed that human MAP3K1 / MEKK1 activated JNK1 (MAPK8) robustly and p38-alpha (MAPK14) less efficiently, but it had only a marginal effect on ERK2 (MAPK1). MAP3K1 / MEKK1 directly and specifically interacted with JNKK1 (MAP2K4) and activated JNKK1 in cells and in vitro. Phosphorylation of JNKK1 disrupted their interaction. MEKK1 and JNK1 competed for binding to JNKK1. Xia et al.(1998) concluded that JNKK1 is the preferred MEKK1 substrate.

UniProt: [Q13233](#)

Pathways: [MAPK Signaling](#), [Interferon-gamma Pathway](#), [Caspase Cascade in Apoptosis](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Activation of Innate immune Response](#), [Regulation of Actin Filament Polymerization](#), [Toll-Like Receptors Cascades](#)

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the MAP3K1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL

Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

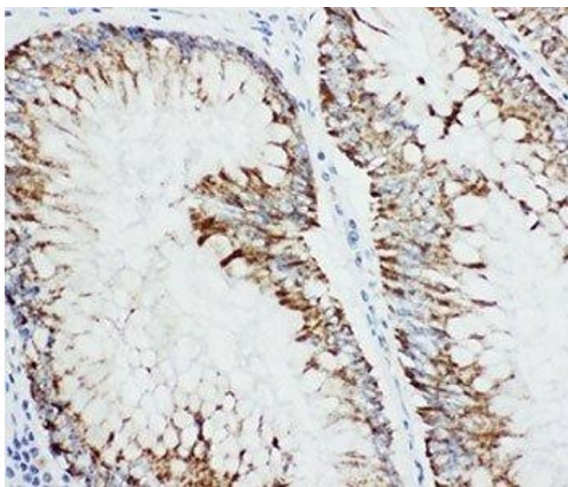
Storage: -20 °C

Storage Comment: After reconstitution, the MAP3K1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



Western Blotting

Image 1. Western blot testing with MAP3K1 antibody and MCF-7 lysate. Predicted/observed size ~162KD



Immunohistochemistry

Image 2. IHC-P: MAP3K1 antibody testing of human intestine cancer



Western Blotting

Image 3. Western blot testing with MAP3K1 antibody and MCF-7 lysate. Predicted/observed size ~162KD