

Datasheet for ABIN3044007
anti-MAP3K1 antibody (C-Term)



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2 Images

Overview

Quantity:	100 µg
Target:	MAP3K1
Binding Specificity:	AA 1418-1432, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP3K1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Mitogen-activated protein kinase kinase kinase 1(MAP3K1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human MEKK1(1418-1432aa PEVLRGQQYGRSCDV), identical to the related rat and mouse sequences.
Sequence:	PEVLRGQQYG RSCDV
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse, rat No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Mitogen-activated protein kinase kinase kinase 1(MAP3K1)

Product Details

detection. Tested with WB, IHC-P in Human,Mouse,Rat.

Gene Name: mitogen-activated protein kinase kinase kinase 1, E3 ubiquitin protein ligase

Protein Name: Mitogen-activated protein kinase kinase kinase 1

Purification: Immunogen affinity purified.

Target Details

Target: MAP3K1

Alternative Name: MAP3K1 ([MAP3K1 Products](#))

Background: MAP3K1(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 gene. Vinik et al.(1995) identified DNA sequence and size polymorphisms in intronic and 3-prime untranslated regions of the mouse Map3k1 gene and the human MAP3K1 homolog. Using these allele-specific polymorphisms, they mapped the Map3k1 gene in an intersubspecific backcross to mouse chromosome 13. They mapped the human MAP3K1 gene to chromosome 5 by somatic cell hybrid analysis. By assaying transfected COS-1 cells, Xia et al.(1998) showed that human MEKK1 activated JNK1(MAPK8) robustly and p38-alpha(MAPK14) less efficiently, but it had only a marginal effect on ERK2(MAPK1). MEKK1 directly and specifically interacted with JNKK1(MAP2K4) and activated JNKK1 in cells and in vitro. Phosphorylation of JNKK1 by MEKK1 disrupted their interaction. MEKK1 and JNK1 competed for binding to JNKK1. Xia et al.(1998) concluded that JNKK1 is the preferred MEKK1 substrate.

Synonyms: M3K1_HUMAN antibody|MAP3K1 antibody|MAPK/ERK kinase kinase 1 antibody|MAPKKK1 antibody|MEK kinase 1 antibody|MEKK 1 antibody|Mekk antibody|MEKK1 antibody|Mitogen activated protein kinase kinase kinase 1 antibody|Mitogen activated protein kinase kinase kinase 1, E3 ubiquitin protein ligase antibody|Mitogen-activated protein kinase kinase kinase 1 antibody|SRXY6 antibody

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:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat, The detection limit for MAP3K1 is approximately 0.5 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.</p> <p>Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

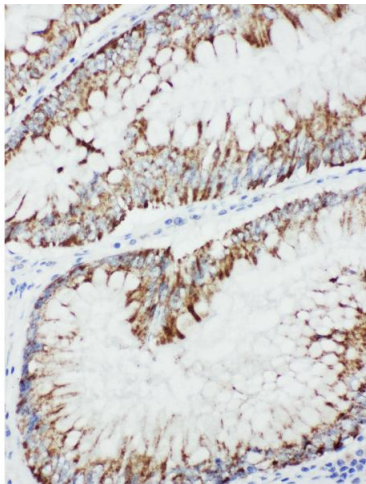
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months



Western Blotting

Image 1. Anti-MEKK1 antibody, Western blotting All lanes: Anti MEKK1 at 0.5ug/ml WB: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 164KD Observed bind size: 164KD



Immunohistochemistry

Image 2. Anti-MEKK1 antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue