

Rabbit anti-Human, Rat MEKK2/MAP3K2 Polyclonal Antibody | anti-MAP3K2 antibody

Anti-MEKK2/MAP3K2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125650	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

MEKK2/MAP3K2; Polyclonal Antibody; Anti-MEKK2/MAP3K2 Antibody; MAP3K2; MAPKKK2; MEKK2; Mitogen-activated protein kinase kinase kinase 2; MAPK/ERK kinase kinase 2; MEK kinase 2; MEKK 2; mitogen-activated protein kinase kinase kinase 2; anti-MAP3K2 antibody

PRODUCT SPECIFICATIONS

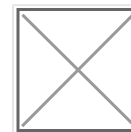
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for MEKK2/MAP3K2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-MAP3K2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human MEKK2/MAP3K2 recombinant protein (Position: M1-Q364).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of SiHa cells using anti-MEKK2/MAP3K2 antibody (AAA125650). Overlay histogram showing SiHa cells stained with AAA125650 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MEKK2/MAP3K2 Antibody (AAA125650, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of MEKK2/MAP3K2 using anti-MEKK2/MAP3K2 antibody (AAA125650). MEKK2/MAP3K2 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-MEKK2/MAP3K2 Antibody (AAA125650) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of MEKK2/MAP3K2 using anti-MEKK2/MAP3K2 antibody (AAA125650). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HEK293 whole cell lysates Lane 2: human Hela whole cell lysates Lane 3: human K562 whole cell lysates Lane 4: human HepG2 whole cell lysates Lane 5: human MCF-7 whole cell lysates Lane 6: human Jurkat whole cell lysates Lane 7: rat kidney tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MEKK2/MAP3K2 antigen affinity purified polyclonal antibody (Catalog # AAA125650) at 0.5 μg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit & Tanon 5200 system. A specific band was detected for MEKK2/MAP3K2 at approximately 78KD. The expected band size for MEKK2/MAP3K2 is at 78KD.

ADDITIONAL INFORMATION

Related Product Information for anti-MAP3K2 antibody	MAP3K2, mitogen-activated protein kinase kinase kinase 2, also known as MEKK2, belongs to the mitogen-activated protein kinase(MAPK) kinase kinase gene family, which is involved in regulating multiple MAPK signaling pathways. Endogenous MAP3K2 localized mainly to the cytosol of unstimulated HeLa cells and rat fibroblasts. The MAP3K2 gene is mapped to chromosome 2 by the International Radiation Hybrid Mapping Consortium. MAP3K2 is a major upstream activator of the JNK, MAPK cascade. MAP3K2 was identifies as 1 of 6 kinases that regulate different steps of the caveolar cycle. Silencing of MAP3K2 strongly reduced kiss-and-run dynamics, leading to an accumulation of caveolar structures at the cell surface without affecting caveolae coat assembly or clustering.
References	1. Yao Z, et al. Calcium regulation of EGF-induced ERK5 activation: role of Lad1-MEKK2 interaction. PLoS One, 2010 Sep 7. 2. Cazares LH, et al. Maging mass spectrometry of a specific fragment of mitogen-activated protein kinase/extracellular signal-regulated kinase kinase kinase 2 discriminates cancer from uninvolved prostate tissue. Clin Cancer Res, 2009 Sep 1.

NCBI AND UNIPROT INFORMATION

NCBI GI #	97536681
NCBI GeneID	10746
UniProt Accession #	Q9Y2U5; Q53QL9; Q53S75; Q59GZ6; Q8NC32; Q9NYK3; B9EG87
Molecular Weight	619
NCBI Official Full Name	Mitogen-activated protein kinase kinase kinase 2
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase 2
NCBI Official Symbol	MAP3K2
NCBI Official Synonym Symbols	MEKK2; MEKK2B
NCBI Protein Information	mitogen-activated protein kinase kinase kinase 2; MEKK 2; MEK kinase 2; MAP/ERK kinase kinase 2; MAPK/ERK kinase kinase 2
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 2
UniProt Gene Name	MAP3K2
UniProt Synonym Gene Names	MAPKKK2; MEKK2; MEK kinase 2; MEKK 2
UniProt Entry Name	M3K2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mekek2-map3k2-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125650>