Rabbit anti-Human MAP4K1/HPK1 Polyclonal Antibody | anti-MAP4K1 antibody

Anti-MAP4K1/HPK1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126505	**Rabbit**	**Human**	**ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot**

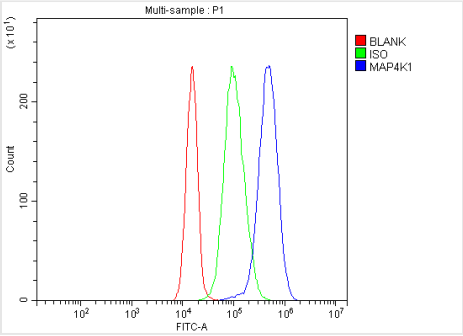
PRODUCT SYNONYMS

MAP4K1/HPK1; Polyclonal Antibody; Anti-MAP4K1/HPK1 Antibody Picoband; anti-MAP4K1 antibody

PRODUCT SPECIFICATIONS

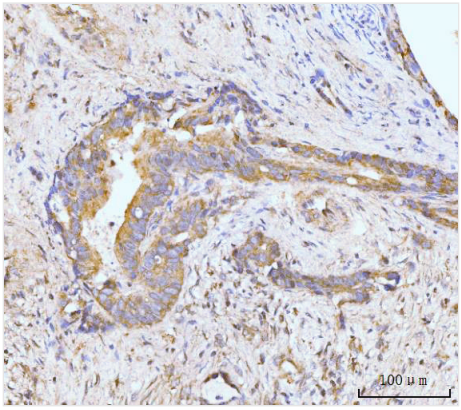
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-MAP4K1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human MAP4K1/HPK1 recombinant protein (Position: E30-H769).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



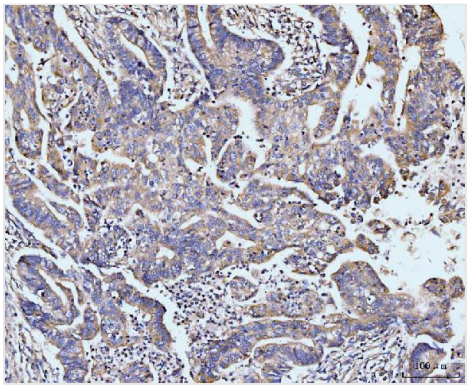
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of SiHa cells using anti-MAP4K1/HPK1 antibody (AAA126505).Overlay histogram showing SiHa cells stained with AAA126505 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MAP4K1/HPK1 Antibody (AAA126505, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



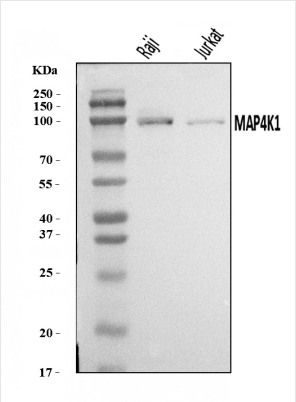
IHC (Immunohistochemisry)

Figure 3. IHC analysis of MAP4K1/HPK1 using anti-MAP4K1/HPK1 antibody (AAA126505).MAP4K1/HPK1 was detected in a paraffin-embedded section of human gall bladder adenosquamous carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MAP4K1/HPK1 Antibody (AAA126505) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of MAP4K1/HPK1 using anti-MAP4K1/HPK1 antibody (AAA126505).MAP4K1/HPK1 was detected in a paraffin-embedded section of human colonic adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MAP4K1/HPK1 Antibody (AAA126505) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of MAP4K1/HPK1 using anti-MAP4K1/HPK1 antibody (AAA126505).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 30 ug of sample under reducing conditions.Lane 1: human Raji whole cell lysates,Lane 2: human Jurkat whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-MAP4K1/HPK1 antigen affinity purified polyclonal antibody (#AAA126505) at 0.5 ug/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 with Tanon 5200 system. A specific band was detected for MAP4K1/HPK1 at approximately 91 kDa. The expected band size for MAP4K1/HPK1 is at 91 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MAP4K1 antibody	Mitogen-activated protein kinase kinase kinase kinase 1 is a protein kinase that in humans is encoded by the MAP4K1 gene. It is also known as HPK1 (Hematopoietic Progenitor Kinase 1). The protein has been shown to play a role in JNK activation.
Product Categories/Family for anti-MAP4K1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	110611908
NCBI GeneID	11184
NCBI Accession #	NP_001036065.1
NCBI GenBank Nucleotide #	NM_001042600.1
UniProt Accession #	Q92918
Molecular Weight	91,296 Da
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase kinase 1 isoform 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase kinase 1
NCBI Official Symbol	MAP4K1
NCBI Official Synonym Symbols	HPK1
NCBI Protein Information	mitogen-activated protein kinase kinase kinase kinase 1; MEKKK 1; MEK kinase kinase 1; MAPK/ERK kinase kinase kinase 1; hematopoietic progenitor kinase 1
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase kinase 1
UniProt Gene Name	**MAP4K1**
UniProt Synonym Gene Names	HPK1; MEK kinase kinase 1; MEKKK 1
UniProt Entry Name	M4K1_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://www.aaabiotech.com/polyclonal/map4k1-hpk1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/126505