

Rabbit anti-Rat MAP4K1/HPK1 Polyclonal Antibody | anti-Map4k1 antibody

Anti-MAP4K1/HPK1 Antibody

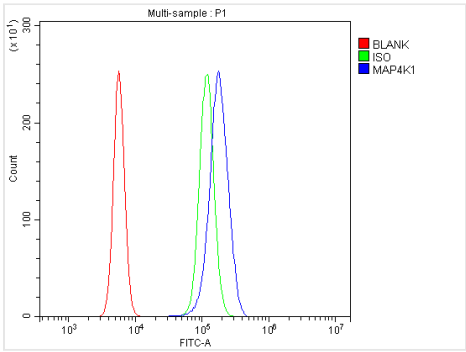
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125796	Rabbit	Rat	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

MAP4K1/HPK1; Polyclonal Antibody; Anti-MAP4K1/HPK1 Antibody; Mitogen-activated protein kinase kinase kinase 1; Map4k1; Map4k1_predicted; rCG_54238; mitogen activated protein kinase kinase kinase 1; anti-Map4k1 antibody

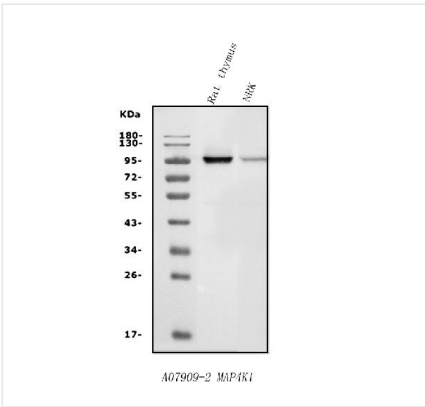
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for MAP4K1/HPK1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-Map4k1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of rat MAP4K1/HPK1 (DIFNKDPREHYDLLQRL).
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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of RAW264. 7 cells using anti-MAP4K1/HPK1 antibody (AAA125796).Overlay histogram showing RAW264. 7 cells stained with AAA125796 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MAP4K1/HPK1 Antibody (AAA125796, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 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.



WB (Western Blot)

Figure 1. Western blot analysis of MAP4K1/HPK1 using anti-MAP4K1/HPK1 antibody (AAA125796).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: rat thymus tissue lysatesLane 2: rat NRK whole cell 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-MAP4K1/HPK1 antigen affinity purified polyclonal antibody (Catalog # AAA125796) 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 with Tanon 5200 system. A specific band was detected for MAP4K1/HPK1 at approximately 97KD. The expected band size for MAP4K1/HPK1 is at 97KD.

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.
References	1. Hu, M. C. -T., Qiu, W. R., Wang, X., Meyer, C. F., Tan, T. -H. Human HPK1, a novel human hematopoietic progenitor kinase that activates the JNK/SAPK kinase cascade. Genes Dev. 10: 2251-2264, 1996. 2. Kiefer, F., Tibbles, L. A., Anafi, M., Janssen, A., Zanke, B. W., Lassam, N., Pawson, T., Woodgett, J. R., Iscove, N. N. HPK1, a hematopoietic protein kinase activating the SAPK/JNK pathway. EMBO J. 15: 7013-7025, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GeneID	292763
UniProt Accession #	D3Z8I4

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-western-blot-elisa/125796>