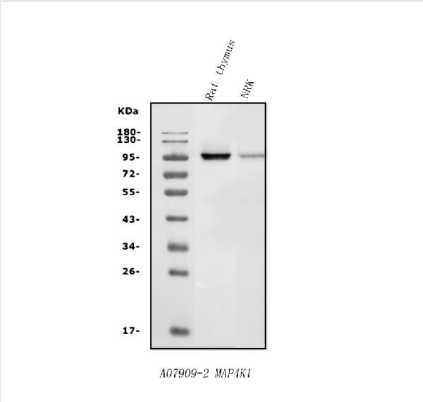
MAP4K1 Antibody – Rabbit Polyclonal

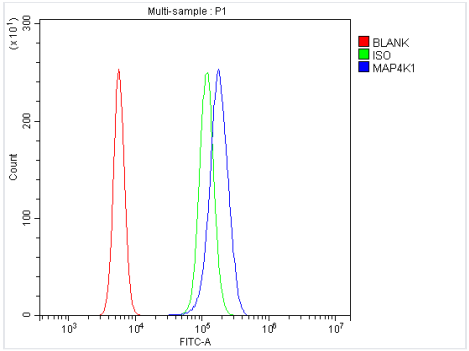
PRODUCT OVERVIEW

Product Name	MAP4K1/HPK1, Polyclonal Antibody
Full Product Name	Anti-MAP4K1/HPK1 Antibody
Product Gene Name	anti-Map4k1 antibody
Product Synonym Names	Mitogen-activated protein kinase kinase kinase kinase 1; Map4k1; Map4k1_predicted; rCG_54238; mitogen activated protein kinase kinase kinase kinase 1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Purity/Purification	Immunogen affinity purified.
Specificity	Rabbit IgG polyclonal antibody for MAP4K1/HPK1 detection.
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.
3D Structure	ModBase 3D Structure for D3Z8I4
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||Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-Map4k1 antibody	Western Blot (WB), Flow Cytometry (FC/FACS/FCM)
Application Notes for anti-Map4k1 antibody	WB: 0.25-0.5ug/ml|Rat| FC/FACS/FCM: 1-3ug/1x106 cells|Rat|
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 References and Citations for anti-Map4k1 antibody	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.
Other Notes	Small volumes of anti-Map4k1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Map4k1 purchase	MBS1753777 is an antibody targeting Map4k1. Also known as Anti-MAP4K1/HPK1 Antibody. Reactive in Rat. Host: Rabbit.



Western Blot (WB) of anti-Map4k1 antibody

Figure 1. Western blot analysis of MAP4K1/HPK1 using anti-MAP4K1/HPK1 antibody (MBS1753777).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 # MBS1753777) at 0. 5 ?g/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 (Catalog # MBS176460) 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.



Flow Cytometry (FC/FACS) of anti-Map4k1 antibody

Figure 2. Flow Cytometry analysis of RAW264. 7 cells using anti-MAP4K1/HPK1 antibody (MBS1753777).Overlay histogram showing RAW264. 7 cells stained with MBS1753777 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MAP4K1/HPK1 Antibody (MBS1753777, 1?g/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10?g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1?g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Map4k1. It may not necessarily be applicable to this product.

NCBI GeneID	292763
UniProt Primary Accession #	D3Z8I4
Protein Family	Mitogen-activated protein kinase kinase kinase kinase
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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