

Rabbit anti-Human MAP4K5 Polyclonal Antibody | anti-MAP4K5 antibody

Anti-MAP4K5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125810	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MAP4K5; Polyclonal Antibody; Anti-MAP4K5 Antibody; Mitogen-activated protein kinase kinase kinase 5; Kinase homologous to SPS1/STE20; KHS; MAPK/ERK kinase kinase kinase 5; MEK kinase kinase 5; MEKKK 5; mitogen-activated protein kinase kinase kinase 5; anti-MAP4K5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for MAP4K5 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-MAP4K5 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human MAP4K5 (AADILRRNPQQDYELVQR).
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



IF (Immunofluorescence)

Figure 3. IF analysis of MAP4K5 using anti- MAP4K5 antibody (AAA125810).MAP4K5 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- MAP4K5 Antibody (AAA125810) overnight at 4 degree C. DyLight®488 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.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of MAP4K5 using anti-MAP4K5 antibody (AAA125810).MAP4K5 was detected in paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-MAP4K5 Antibody (AAA125810) 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 Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of MAP4K5 using anti-MAP4K5 antibody (AAA125810). 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 Jurkat whole cell lysates Lane 2: human K562 whole cell lysates Lane 3: human HepG2 whole cell lysates Lane 4: human HEK293 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-MAP4K5 antigen affinity purified polyclonal antibody (Catalog # AAA125810) 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 MAP4K5 at approximately 95KD. The expected band size for MAP4K5 is at 95KD.

ADDITIONAL INFORMATION

Related Product Information for anti-MAP4K5 antibody	Mitogen-activated protein kinase kinase kinase kinase 5 is an enzyme that in humans is encoded by the MAP4K5 gene. This gene encodes a member of the serine/threonine protein kinase family, that is highly similar to yeast SPS1/STE20 kinase. Yeast SPS1/STE20 functions near the beginning of the MAP kinase signal cascades that is essential for yeast pheromone response. This kinase was shown to activate Jun kinase in mammalian cells, which suggested a role in stress response. Two alternatively spliced transcript variants encoding the same protein have been described for this gene.
References	1. Tung, R. M., Blenis, J. A novel human SPS1/STE20 homologue, KHS, activates Jun N-terminal kinase. Oncogene 14: 653-659, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38570135
NCBI GeneID	11183
NCBI Accession #	NP_942089.1
NCBI GenBank Nucleotide #	NM_198794.2
UniProt Accession #	Q9Y4K4; Q8IYF6; A0A0A0MQR1
Molecular Weight	95,024 Da
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase kinase 5
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase kinase 5
NCBI Official Symbol	MAP4K5
NCBI Official Synonym Symbols	KHS; GCKR; KHS1; MAPKKKK5
NCBI Protein Information	mitogen-activated protein kinase kinase kinase kinase 5
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase kinase 5
UniProt Gene Name	MAP4K5
UniProt Synonym Gene Names	KHS; MEK kinase kinase 5; MEKKK 5

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.