

Rabbit anti-Human, Mouse MAP4K4 Polyclonal Antibody | anti-MAP4K4 antibody

Phospho-MAP4K4 (Ser801) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329305	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

MAP4K4; Polyclonal Antibody; Phospho-MAP4K4 (Ser801) Antibody; FLH21957; FLJ10410; FLJ20373; FLJ90111; Hepatocyte progenitor kinase like/germinal center kinase like kinase; HGK; HPK/GCK like kinase; HPK/GCK like kinase HGK; HPK/GCK-like kinase HGK; KIAA0687; M4K4_HUMAN; MAPK/ERK kinase kinase kinase 4; MEK kinase kinase 4; MEKKK 4; MEKKK4; Mitogen activated protein kinase kinase kinase kinase 4; Mitogen-activated protein kinase kinase kinase kinase 4; Nck interacting kinase; Nck-interacting kinase; NIK; anti-MAP4K4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-MAP4K4 (Ser801) Antibody detects endogenous levels of MAP4K4 only when phosphorylated at Ser801. Tissue Specificity: Widely expressed. Isoform 5 is abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MAP4K4 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide derived from human MAP4K4 around the phosphorylation site of Ser801.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Interacts with the SH3 domain of the adapter proteins Nck (By similarity). Interacts (via its CNH regulatory domain) with ATL1 (via the N-terminal region). Interacts with RAP2A (GTP-bound form preferentially).
Similarity	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.
Subcellular Location	Cytoplasm.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

Staining Hela cells(heat shock treatment) by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25 degree C. Samples were then incubated with primary Ab(AF3757) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI (blue).



IHC (Immunohistochemistry)

At 1/100 staining Human mammary cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MAP4K4 antibody	Serine/threonine kinase that may play a role in the response to environmental stress and cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway. Phosphorylates SMAD1 on Thr-322.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	336020358
NCBI GeneID	9448
NCBI Accession #	NP_001229488.1
NCBI GenBank Nucleotide #	NM_001242559.1
UniProt Accession #	O95819; O75172; Q9NST7
Molecular Weight	142,101 Da
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase kinase 4 isoform 4
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase kinase 4
NCBI Official Symbol	MAP4K4
NCBI Official Synonym Symbols	HGK; NIK; MEKKK4; FLH21957
NCBI Protein Information	mitogen-activated protein kinase kinase kinase kinase 4; MEK kinase kinase 4; nck-interacting kinase; HPK/GCK-like kinase HGK; Ste20 group protein kinase HGK; MAPK/ERK kinase kinase kinase 4; hepatocyte progenitor kinase-like/germinal center kinase-like k
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase kinase 4
UniProt Gene Name	MAP4K4
UniProt Synonym Gene Names	HGK; KIAA0687; NIK; MEK kinase kinase 4; MEKKK 4
UniProt Entry Name	M4K4_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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