

Rabbit MAP3K5 Polyclonal Antibody | anti-MAP3K5 antibody

MAP3K5 Antibody(T842)

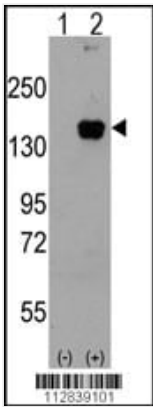
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290713	Rabbit	Human; Predicted Reactivity: Mouse	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MAP3K5; Polyclonal Antibody; MAP3K5 Antibody(T842); Mitogen-activated protein kinase kinase kinase 5; Apoptosis signal-regulating kinase 1; ASK-1; MAPK/ERK kinase kinase 5; MEK kinase 5; MEKK 5; ASK1; MAPKKK5; MEKK5; anti-MAP3K5 antibody

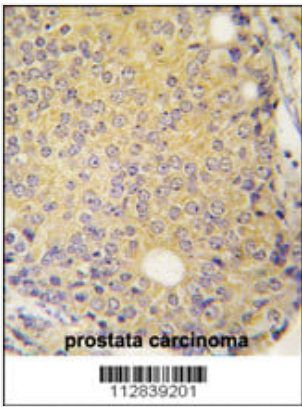
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human; Predicted Reactivity: Mouse
Clonality	Polyclonal
Isotype	Ig
Specificity	This MAP3K5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 821-849 amino acids from human MAP3K5.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	1374
Applicable Applications for anti-MAP3K5 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Subtitle	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Cellular Location	Cytoplasm. Endoplasmic reticulum. Note=Interaction with 14-3-3 proteins alters the distribution of MAP3K5/ASK1 and restricts it to the perinuclear endoplasmic reticulum region.
Tissue Location	Abundantly expressed in heart and pancreas.
Antigen Region	821-849 aa
Antigen Type	Synthetic Peptide
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



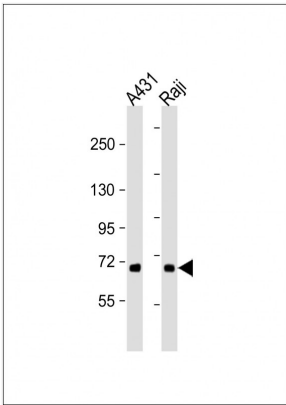
WB (Western Blot)

Western blot analysis of MAP3K5 (arrow) using rabbit polyclonal MAP3K5 Antibody.293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MAP3K5 gene (Lane 2) (Origene Technologies).



IHC (Immunohiostchemistry)

Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with MAP3K5 ANTibody (T842), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)

All lanes : Anti-MAP3K5 Antibody (T842) at 1:2000 dilutionLane 1: A431 whole cell lysateLane 2: Raji whole cell lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 155 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-MAP3K5 antibody	Description: Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. MAPKKK5 contains 1,374 amino acids with all 11 kinase subdomains. Northern blot analysis shows that MAPKKK5 transcript is abundantly expressed in human heart and pancreas. The MAPKKK5 protein phosphorylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kinase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 cells; MAPKKK5 does not activate MAPK/ERK. Background: Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Mediates signaling for determination of cell fate such as differentiation and survival. Plays a crucial role in the apoptosis signal transduction pathway through mitochondria-dependent caspase activation. MAP3K5/ASK1 is required for the innate immune response, which is essential for host defense against a wide range of pathogens. Mediates signal transduction of various stressors like oxidative stress as well as by receptor-mediated inflammatory signals, such as the tumor necrosis factor (TNF) or lipopolysaccharide (LPS). Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade and the p38 MAPK signal transduction cascade through the phosphorylation and activation of several MAP kinase kinases like MAP2K4/SEK1, MAP2K3/MKK3, MAP2K6/MKK6 and MAP2K7/MKK7. These MAP2Ks in turn activate p38 MAPKs and c-jun N-terminal kinases (JNKs). Both p38 MAPK and JNKs control the transcription factors activator protein-1 (AP-1).
Product Categories/Family for anti-MAP3K5 antibody	Primary Antibodies ; Antibody Collections ; Cardiovascular ; Cell Biology ; Amyotrophic Lateral Sclerosis (ALS)
References	Min,W.,Circ. Res. 102 (7), 840-848 (2008). Li,X.,Cell Death Differ. 15 (4), 739-750 (2008). Noguchi,T.,J. Biol. Chem. 283 (12), 7657-7665 (2008).

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174547
NCBI GeneID	4217
NCBI Accession #	NP_005914.1
NCBI GenBank Nucleotide #	NM_005923.3
UniProt Accession #	Q99683; Q5THN3; Q99461; A6NIA0; B4DGB2
Molecular Weight	154537 Da
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase 5
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase 5
NCBI Official Symbol	MAP3K5
NCBI Official Synonym Symbols	ASK1; MEKK5; MAPKKK5
NCBI Protein Information	mitogen-activated protein kinase kinase kinase 5
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 5
UniProt Gene Name	MAP3K5
UniProt Synonym Gene Names	ASK1; MAPKKK5; MEKK5; ASK-1; MEK kinase 5; MEKK 5
UniProt Entry Name	M3K5_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.