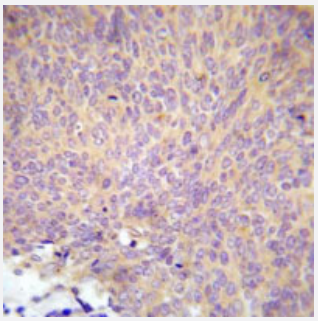
MAP3K5 polyclonal antibody

Catalog # PAB17000 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human lung adenocarcinoma tissue using MAP3K5 polyclonal antibody (Cat # PAB17000).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MAP3K5.
Immunogen	A synthetic peptide corresponding to residues surrounding S966 of human MAP3K5.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of total MAP3K5 protein.
Form	Liquid
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:20000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM PBS, 0.15 M NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human lung adenocarcinoma tissue using MAP3K5 polyclonal antibody (Cat # PAB17000).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

Gene Info — MAP3K5

Entrez GeneID	4217
Protein Accession#	Q99683
Gene Name	MAP3K5
Gene Alias	ASK1, MAPKKK5, MEKK5
Gene Description	mitogen-activated protein kinase kinase kinase 5
Omim ID	602448
Gene Ontology	Hyperlink
Gene Summary	Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular sign al-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, MA PK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are high ly 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 tr anscript is abundantly expressed in human heart and pancreas. The MAPKKK5 protein phosphor ylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kin ase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 c ells; MAPKKK5 does not activate MAPK/ERK. [provided by RefSeq
Other Designations	MAP/ERK kinase kinase 5|MAPK/ERK kinase kinase 5|OTTHUMP00000017275|apoptosis sign al regulating kinase

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Publication Reference

- Molecular mechanisms of the decision between life and death: regulation of apoptosis by apoptosis signal-regulating kinase 1.

  Matsuzawa A, Ichijo H.

  Journal of Biochemistry 2001 Jul; 130(1):1.

  Application: IHC, WB-Tr, Human, Cancers, Mammalian cells

- ASK1 is required for sustained activations of JNK/p38 MAP kinases and apoptosis.

  Tobiume K, Matsuzawa A, Takahashi T, Nishitoh H, Morita K, Takeda K, Minowa O, Miyazono K, Noda T, Ichijo H.

  EMBO Reports 2001 Mar; 2(3):222.

  Application: IP, WB, Mouse, MEFs

- Induction of apoptosis by ASK1, a mammalian MAPKKK that activates SAPK/JNK and p38 signaling pathways.

  Ichijo H, Nishida E, Irie K, ten Dijke P, Saitoh M, Moriguchi T, Takagi M, Matsumoto K, Miyazono K, Gotoh Y.

  Science 1997 Jan; 275(5296):90.

Pathway

- Amyotrophic lateral sclerosis (ALS)
- MAPK signaling pathway
- Neurotrophin signaling pathway

Disease

- Asthma
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hypersensitivity

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- Inflammation
- Insulin Resistance
- Lymphoma
- Tobacco Use Disorder

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