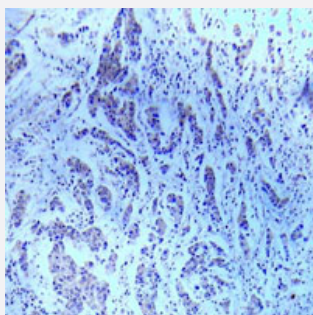


MAP3K5 polyclonal antibody

Catalog # PAB16999 Size 100 ug

Applications



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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MAP3K5 polyclonal antibody (Cat # PAB16999).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MAP3K5.
Immunogen	A synthetic peptide corresponding to residues surrounding S83 of human MAP3K5.
Host	Rabbit
Reactivity	Human
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.

Note

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

Applications

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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MAP3K5 polyclonal antibody (Cat # PAB16999).

- Enzyme-linked Immunoabsorbent Assay

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 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. [provided by RefSeq]

Other Designations MAP/ERK kinase kinase 5|MAPK/ERK kinase kinase 5|OTTHUMP00000017275|apoptosis signal regulating kinase

Publication Reference

- [Inhibition of NADPH oxidase 4 activates apoptosis via the AKT/apoptosis signal-regulating kinase 1 pathway in pancreatic cancer PANC-1 cells.](#)

Mochizuki T, Furuta S, Mitsushita J, Shang WH, Ito M, Yokoo Y, Yamaura M, Ishizone S, Nakayama J, Konagai A, Hirose K, Kiyosawa K, Kamata T.

Oncogene 2006 Jun; 25(26):3699.

Application: IP-WB, WB-Tr, Human, PANC-1, PANC-1-scrambled RNAi, PANC-1-Nox4RNAi-1, PANC-1-Nox4RNAi-2, PANC-1-WT-AKT, PANC-1-KD-AKT cells

- [Cross-talk between JIP3 and JIP1 during glucose deprivation: SEK1-JNK2 and Akt1 act as mediators.](#)

Song JJ, Lee YJ.

The Journal of Biological Chemistry 2005 Jul; 280(29):26845.

- [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](#)

- [Inflammation](#)
- [Insulin Resistance](#)
- [Lymphoma](#)
- [Tobacco Use Disorder](#)