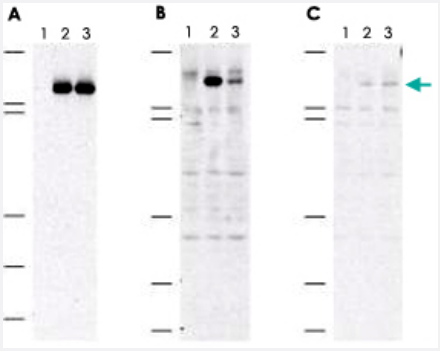
MAP3K5 (phospho S83) polyclonal antibody

Catalog # PAB9947 Size 200 ug

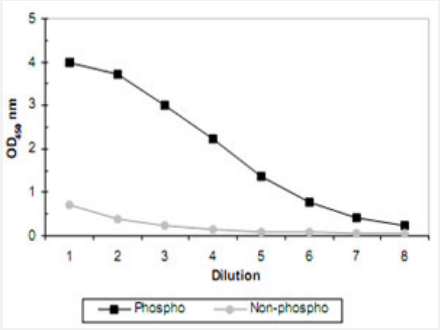
Applications

Western Blot



Immunoblot of MAP3K5 (phospho S83) polyclonal antibody (Cat # PAB9947) shows specificity for phosphorylated human MAP3K5. MAP3K5 (phospho S83) polyclonal antibody was tested by immunoblot against COS-7 cell lysates after transient transfection with (Lane 1) vector only, (Lane 2) recombinant HA-MAP3K5, and (Lane 3) recombinant human HA-MA3K5 where S83 was substituted with an alanine residue.
A : anti-HA.
B : MAP3K5 (phospho S83) polyclonal antibody blocked with non-phospho peptide.
C : MAP3K5 (phospho S83) polyclonal antibody blocked with phospho peptide.
A 155 kDa band corresponding to human MAP3K5 is detected.

Enzyme-linked Immunoabsorbent Assay



ELISA results of MAP3K5 (phospho S83) polyclonal antibody (Cat # PAB9947) tested against BSA conjugates of non-phospho and phospho forms of immunizing peptide.
Each well was coated with 0.1 mg of conjugate.
The starting dilution of antibody was 1 : 1,000 and each point on the X-axis represents a 2-fold dilution.
HRP conjugated Goat-anti-Rabbit IgG H&L and TMB substrate were used for detection.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphpeptide of MAP3K5.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S83 of hum an MAP3K5.

Host	Rabbit
Reactivity	Human, Mouse
Specificity	This phospho specific polyclonal antibody reacts human pS83 ASK1.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:5000-1:10000) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. 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 shoul d be handled by trained staff only.

Applications

- Western Blot

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Gene Info — MAP3K5

Entrez GeneID	4217

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

- Negative feedback regulation of ASK1 by protein phosphatase 5 (PP5) in response to oxidative stress.

  Morita K, Saitoh M, Tobiume K, Matsuura H, Enomoto S, Nishitoh H, Ichijo H.

  The EMBO Journal 2001 Nov; 20(21):6028.

- The cell cycle-regulatory CDC25A phosphatase inhibits apoptosis signal-regulating kinase 1.

  Zou X, Tsutsui T, Ray D, Blomquist JF, Ichijo H, Ucker DS, Kiyokawa H.

  Mol Cell Biol 2001 Jul; 21(14):4818.

- 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

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