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MAP4K4 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22420a

Product Information

Application	WB, E
Primary Accession	O95819
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Clone Names	R03595NP
Calculated MW	142101

Additional Information

Gene ID	9448
Other Names	Mitogen-activated protein kinase kinase kinase kinase 4, 2.7.11.1, HPK/GCK-like kinase HGK, MAPK/ERK kinase kinase kinase 4, MEK kinase kinase 4, MEKKK 4, Nck-interacting kinase, MAP4K4, HGK, KIAA0687, NIK
Target/Specificity	This MAP4K4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human MAP4K4.
Dilution	WB~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MAP4K4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MAP4K4 (HGNC:6866)
Synonyms	HGK, KIAA0687, NIK
Function	Serine/threonine kinase that plays a role in the response to environmental

	stress and cytokines such as TNF. Appears to act upstream of the JUN N-terminal pathway (PubMed:9890973). Activator of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. MAP4Ks act in parallel to and are partially redundant with STK3/MST2 and STK4/MST2 in the phosphorylation and activation of LATS1/2, and establish MAP4Ks as components of the expanded Hippo pathway (PubMed:26437443). Phosphorylates SMAD1 on Thr-322 (PubMed:21690388).
Cellular Location	Cytoplasm.
Tissue Location	Widely expressed. Isoform 5 is abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.

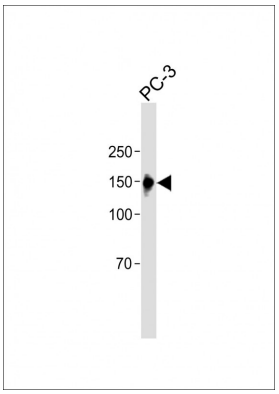
Background

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.

References

Yao Z.,et al.J. Biol. Chem. 274:2118-2125(1999).
Wright J.H.,et al.Mol. Cell. Biol. 23:2068-2082(2003).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Ishikawa K.,et al.DNA Res. 5:169-176(1998).

Images



All lanes: Anti-MAP4K4 Antibody at 1:500 dilution + PC-3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 150 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.