

# MAP4K1 Antibody (S368)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7973d

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q92918</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB11320
<b>Calculated MW</b>	91296
<b>Antigen Region</b>	346-375

## Additional Information

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<b>Gene ID</b>	11184
<b>Other Names</b>	Mitogen-activated protein kinase kinase kinase kinase 1, Hematopoietic progenitor kinase, MAPK/ERK kinase kinase kinase 1, MEK kinase kinase 1, MEKKK 1, MAP4K1, HPK1
<b>Target/Specificity</b>	This MAP4K1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 346-375 amino acids from human MAP4K1.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	MAP4K1 Antibody (S368) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MAP4K1 ( <a href="#">HGNC:6863</a> )
<b>Synonyms</b>	HPK1
<b>Function</b>	Serine/threonine-protein kinase, which plays a role in the response to

environmental stress (PubMed:[24362026](#)). Appears to act upstream of the JUN N-terminal pathway (PubMed:[8824585](#)). 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](#)). May play a role in hematopoietic lineage decisions and growth regulation (PubMed:[24362026](#), PubMed:[8824585](#)). Together with CLNK, it enhances CD3-triggered activation of T-cells and subsequent IL2 production (By similarity).

#### Tissue Location

Expressed primarily in hematopoietic organs, including bone marrow, spleen and thymus. Also expressed at very low levels in lung, kidney, mammary glands and small intestine

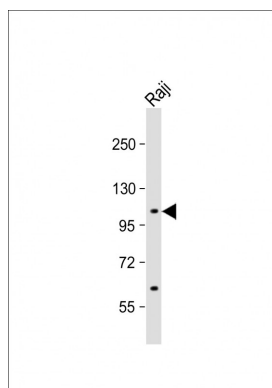
## Background

MAP4K1 or HPKI (hematopoietic progenitor kinase I) is one of these mammalian kinases that have significant sequence similarity to the *Saccharomyces Cerevisiae* serine/threonine kinase STE20, which relays signals from G protein coupled receptors to cytosolic MAP kinase cascades. MAP4K1 may play a role in the response to environmental stress. It appears to act upstream of the JUN N terminal pathway. It may play a role in hematopoietic lineage decisions and growth regulation.

## References

Hu M.C.-T., Genes Dev. 10:2251-2264(1996).  
Beausoleil S.A., Proc. Natl. Acad. Sci. U.S.A. 101:12130-12135(2004).  
Wissing J., Mol. Cell. Proteomics 6:537-547(2007).

## Images



Anti-MAP4K1 Antibody (S368) at 1:1000 dilution + Raji whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 91 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

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