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MAP4K1 Antibody (S368)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7973d

Specification

MAP4K1 Antibody (S368) - Product Information

Application	**WB,E**
Primary Accession	Q92918
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**91296**
Antigen Region	**346-375**

MAP4K1 Antibody (S368) - Additional Information

Gene ID 11184

Other Names
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

Target/Specificity
This MAP4K1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 346-375 amino acids from human MAP4K1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
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.

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
MAP4K1 Antibody (S368) is for research use only and not for use in diagnostic or therapeutic procedures.

MAP4K1 Antibody (S368) - Protein Information

Name MAP4K1 (HGNC:6863)

Synonyms HPK1

Function 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).

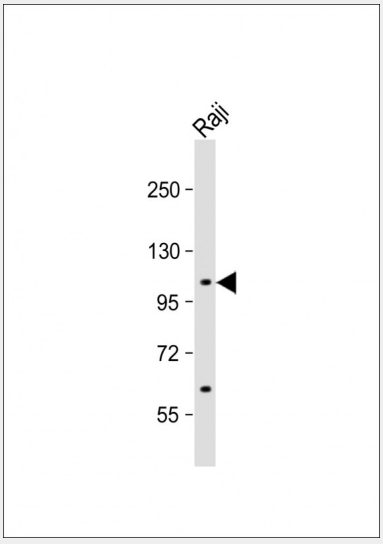
Tissue Location
Expressed primarily in hematopoietic organs, including bone marrow, spleen and thymus. Also expressed at very low levels in lung, kidney, mammary glands and small intestine

MAP4K1 Antibody (S368) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MAP4K1 Antibody (S368) - 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.

MAP4K1 Antibody (S368) - 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.

MAP4K1 Antibody (S368) - 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).