

MAP4K1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22350a

Specification

MAP4K1 Antibody - Product Information

Application	WB, IHC-P-Leica,E
Primary Accession	O92918
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	91296

MAP4K1 Antibody - Additional Information

Gene ID 11184

Other Names

Mitogen-activated protein kinase kinase kinase kinase 1, 2.7.11.1, 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 a rabbit immunized with a recombinant protein from human MAP4K1.

Dilution

WB~~1:2000
IHC-P-Leica~~1:500

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 is for research use only and not for use in diagnostic or therapeutic procedures.

MAP4K1 Antibody - 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

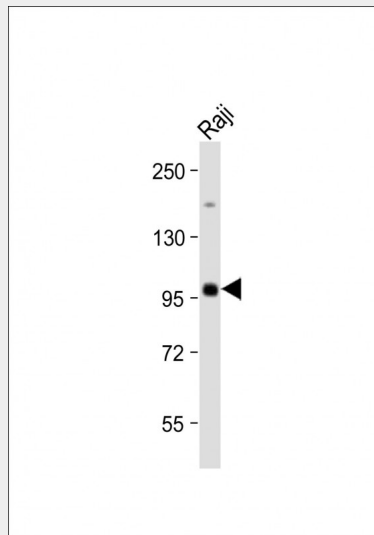
Expressed primarily in hematopoietic organs, including bone marrow, spleen and thymus. Also expressed at very low levels in lung, kidney, mammary glands and small intestine

MAP4K1 Antibody - Protocols

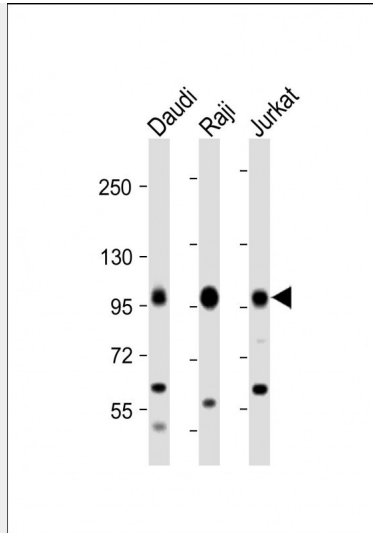
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

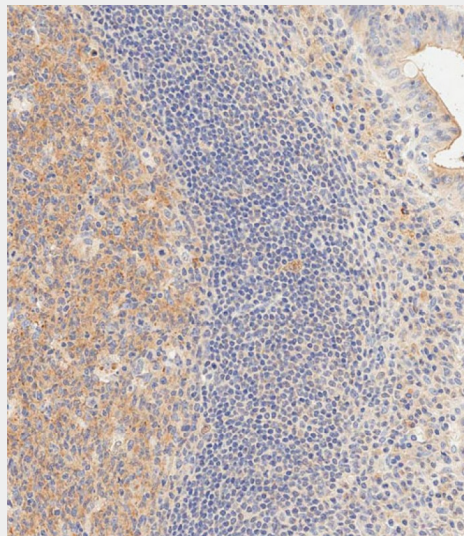
MAP4K1 Antibody - Images



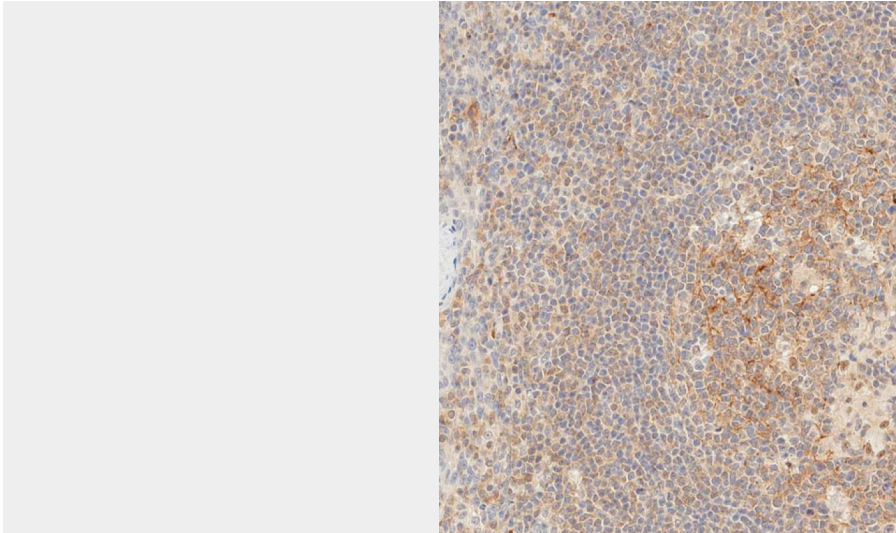
Anti-MAP4K1 Antibody at 1:2000 dilution + Raji whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 91 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-MAP4K1 Antibody at 1:2000 dilution Lane 1: Daudi whole cell lysate Lane 2: Raji whole cell lysate Lane 3: Jurkat whole cell lysate Lysates/proteins at 20 μ g 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.



Immunohistochemical analysis of paraffin-embedded human epityphlon tissue using AP22350a performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using AP22350a performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

MAP4K1 Antibody - Background

Serine/threonine-protein kinase, which may play a role in the response to environmental stress. Appears to act upstream of the JUN N-terminal pathway. May play a role in hematopoietic lineage decisions and growth regulation. Able to autophosphorylate.

MAP4K1 Antibody - References

Hu M.C.-T.,et al.Genes Dev. 10:2251-2264(1996).
Grimwood J.,et al.Nature 428:529-535(2004).
Oppermann F.S.,et al.Mol. Cell. Proteomics 8:1751-1764(2009).
Mayya V.,et al.Sci. Signal. 2:RA46-RA46(2009).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).