

MAP4K1 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP22350a

Product Information

Application WB, IHC-P-Leica, E

Primary Accession Q92918 Reactivity Human **Predicted** Human Host Rabbit Clonality polyclonal Isotype Rabbit IgG **Clone Names** RB58112 Calculated MW 91296

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 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 is for research use only and not for use in diagnostic or

therapeutic procedures.

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

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.

References

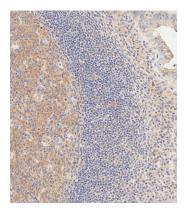
Hu M.C.-T.,et al.Genes Dev. 10:2251-2264(1996). Grimwood J.,et al.Nature 428:529-535(2004). Oppermann F.S.,et al.Mol. Cell. Proteomics 8:1751-1764(2009). Mayya V.,et al.Sci. Signal. 2:RA46-RA46(2009). Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).

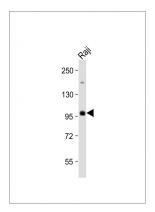
Images



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.

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.





Anti-MAP4K1 Antibody at 1:2000 dilution + Raji 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.

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