

MAP4K1 / HPK1 Antibody (clone 2A1)
Mouse Monoclonal Antibody
Catalog # ALS14445**Specification**

MAP4K1 / HPK1 Antibody (clone 2A1) - Product Information

Application	WB, IHC
Primary Accession	O92918
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	91kDa KDa

MAP4K1 / HPK1 Antibody (clone 2A1) - 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

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

MAP4K1 / HPK1 Antibody (clone 2A1) is for research use only and not for use in diagnostic or therapeutic procedures.

MAP4K1 / HPK1 Antibody (clone 2A1) - Protein Information**Name** MAP4K1**Synonyms** HPK1**Function**

Serine/threonine-protein kinase, which may play a role in the response to environmental stress (PubMed:24362026). Appears to act upstream of the JUN N-terminal pathway (PubMed:8824585). May play a role in hematopoietic lineage decisions and growth regulation (PubMed:8824585, PubMed:24362026). Able to autophosphorylate (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

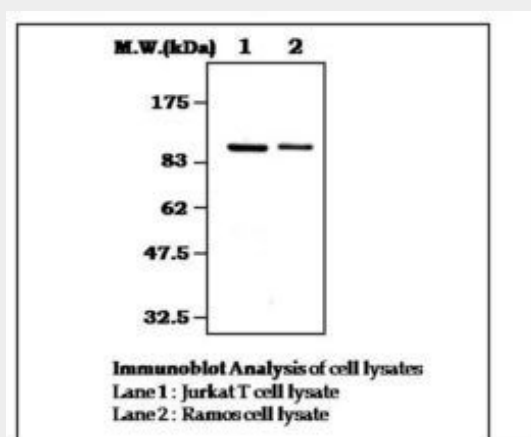
Volume
Array

MAP4K1 / HPK1 Antibody (clone 2A1) - Protocols

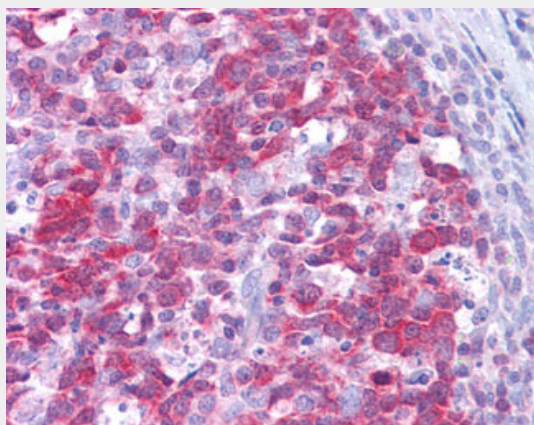
Provided below are standard protocols that you may find useful for product applications.

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

MAP4K1 / HPK1 Antibody (clone 2A1) - Images



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Anti-MAP4K1 antibody IHC of human tonsil.

MAP4K1 / HPK1 Antibody (clone 2A1) - 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 / HPK1 Antibody (clone 2A1) - 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).