

**Goat Anti-HPK1 / MAP4K1 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1538a

**Specification**

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**Goat Anti-HPK1 / MAP4K1 Antibody - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB  |
| Primary Accession | <a href="#">O92918</a>                            |
| Other Accession   | <a href="#">NP_009112</a> , <a href="#">11184</a> |
| Reactivity        | Human   |
| Predicted         | Mouse, Rat, Pig, Dog                              |
| Host              | Goat  |
| Clonality         | Polyclonal  |
| Concentration     | 100ug/200ul                                       |
| Isotype           | IgG   |
| Calculated MW     | 91296   |

**Goat Anti-HPK1 / 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

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-HPK1 / MAP4K1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-HPK1 / 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:<a href="http://www.uniprot.org/citations/24362026" target="\_blank">24362026</a>). Appears to act upstream of the JUN N-terminal pathway (PubMed:<a

[8824585](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/26437443)). May play a role in hematopoietic lineage decisions and growth regulation (PubMed:[24362026](http://www.uniprot.org/citations/24362026)), PubMed:[8824585](http://www.uniprot.org/citations/8824585)). Together with CLNK, it enhances CD3-triggered activation of T-cells and subsequent IL2 production (By similarity).

#### Tissue Location

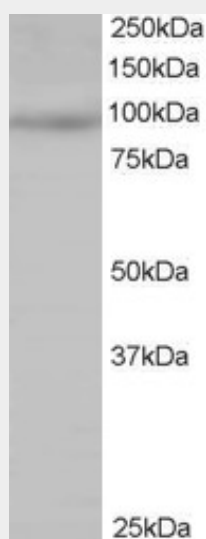
Expressed primarily in hematopoietic organs, including bone marrow, spleen and thymus. Also expressed at very low levels in lung, kidney, mammary glands and small intestine

#### Goat Anti-HPK1 / 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](#)

#### Goat Anti-HPK1 / MAP4K1 Antibody - Images



AF1538a staining (0.5 µg/ml) of Jurkat lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

#### Goat Anti-HPK1 / MAP4K1 Antibody - References

Phosphorylation of CARMA1 by HPK1 is critical for NF-kappaB activation in T cells. Brenner D, et al.

Proc Natl Acad Sci U S A, 2009 Aug 25. PMID 19706536.

Proteasome-mediated degradation and functions of hematopoietic progenitor kinase 1 in pancreatic cancer. Wang H, et al. Cancer Res, 2009 Feb 1. PMID 19141650.

Prostaglandin E2 activates HPK1 kinase activity via a PKA-dependent pathway. Sawasdikosol S, et al. J Biol Chem, 2007 Nov 30. PMID 17895239.

Caspase-cleaved HPK1 induces CD95L-independent activation-induced cell death in T and B lymphocytes. Brenner D, et al. Blood, 2007 Dec 1. PMID 17712048.

Systematic identification of SH3 domain-mediated human protein-protein interactions by peptide array target screening. Wu C, et al. Proteomics, 2007 Jun. PMID 17474147.

**Goat Anti-HPK1 / MAP4K1 Antibody - Citations**

- [HPK1 positive expression associated with longer overall survival in patients with estrogen receptor-positive invasive ductal carcinoma-not otherwise specified.](#)