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Goat Anti-HPK1 / MAP4K1 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1538a

Specification

Goat Anti-HPK1 / MAP4K1 Antibody - Product Information

Application	**WB, E**
Primary Accession	Q92918
Other Accession	NP_009112, 11184
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

Dilution
WB~~1:1000
E~~N/A

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: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).

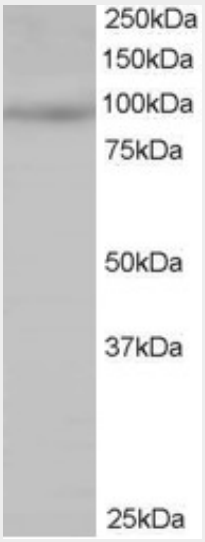
Tissue Location
Expressed primarily in hematopoietic organs, including bone marrow, spleen and thymus. Also expressed at very low levels in lung, kidney, mammary glands and small intestine

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 Cytomety
- 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.

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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.