

Anti-HPK1 Antibody

Catalog # AP95936

Product Information

Application	WB, IHC, FC
Primary Accession	Q92918
Reactivity	Human, Mouse, Rat, Mk
Host	Mouse
Clonality	Monoclonal
Calculated MW	91296

Additional Information

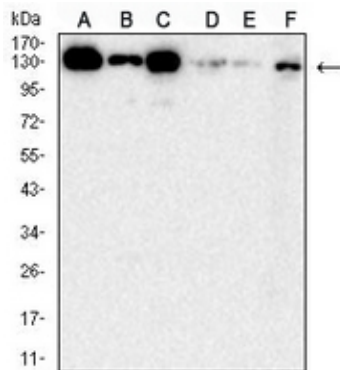
Gene ID	11184
Other Names	HPK1; Mitogen-activated protein kinase kinase kinase 1; HematopoietIC, progenitor kinase; MAPK/ERK kinase kinase kinase 1; MEK kinase kinase 1; MEKKK 1
Target/Specificity	Recombinant fusion protein of human HPK1 expressed in HEK293
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

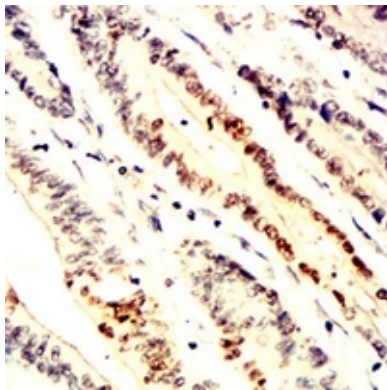
Name	MAP4K1 (HGNC:6863)
Synonyms	HPK1
Function	Serine/threonine-protein kinase, which plays a role in the response to environmental stress (PubMed: 24362026). Appears to act upstream of the JUN N-terminal pathway (PubMed: 8824585). Activator of the Hippo signaling pathway which plays a pivotal role in 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

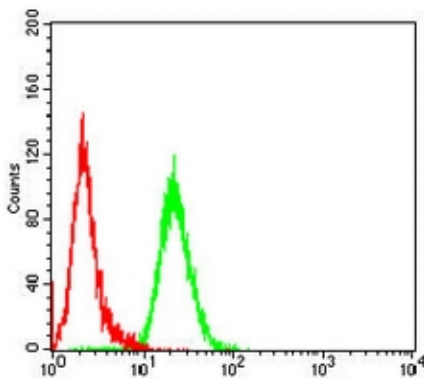
Images



Western blot analysis of HPK1 expression in Jurkat (A), A549 (B), mouse kidney (C), COS7 (D), C6 (E), NIH/3T3 (F) whole cell lysates. (Predicted band size: 91 kD; Observed band size: 130 kD)



Immunohistochemical analysis of HPK1 staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of Jurkat cells using Anti-HPK1 Antibody (green) and negative control (red).

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