

## DATASHEET

# HPK1 Mouse Monoclonal Antibody(C2826)

CAT. NO. AMA02438

### KEY FEATURES

Target	HPK1	Source / Host	Mouse
Reactivity	Human, Mouse, Rat, Monkey	Clonality	Monoclonal
Applications	WB, IHC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

### BACKGROUND

Serine/threonine-protein kinase, which plays a role in the response to environmental stress . Appears to act upstream of the JUN N-terminal pathway . 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 . May play a role in hematopoietic lineage decisions and growth regulation . Together with CLNK, it enhances CD3-triggered activation of T-cells and subsequent IL2 production .

### APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:500
FC	1:100 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

### PRODUCT OVERVIEW

Description	Mouse monoclonal to HPK1
Specificity	Recognizes endogenous levels of HPK1 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human HPK1 expressed in HEK293
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 91 kD; Observed: 130 kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	HPK1; Mitogen-activated protein kinase kinase kinase kinase 1; HematopoietIC, progenitor kinase; MAPK/ERK kinase kinase kinase 1; MEK kinase kinase 1; MEKKK 1
Gene Symbol	MAP4K1
Entrez Gene	11184(Human); 26411(Mouse)
SwissProt	Q92918(Human); P70218(Mouse)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

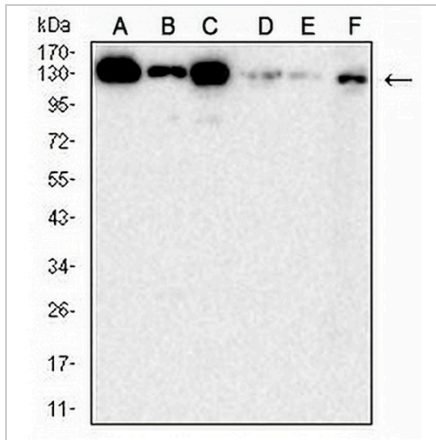
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

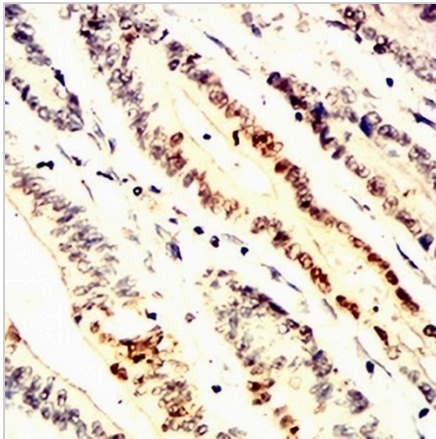
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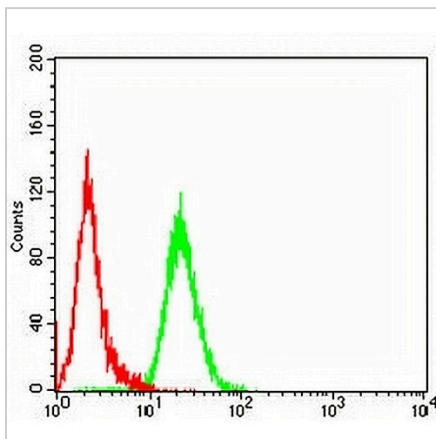
**DATA**



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).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.