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phospho-MAP4K1 (Ser171) Rabbit pAb

Catalog # AP100262

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q92918
Other Accession	Q92918
Reactivity	Rat, Human
Predicted	Pig, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91296
Physical State	Liquid
Immunogen	KLH conjugated Synthesised phosphopeptide derived from human MAP4K1 around the phosphorylation site of Ser171
Epitope Specificity	RL(p-S)FI
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.Contains 1 CNH domain.Contains 1 protein kinase domain.
SUBUNIT	Interacts with MAP3K1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	11184
Other Names	HPK1; mHPK1; M4K1_HUMAN; MAP4K1; Hematopoietic progenitor kinase; MAPK/ERK kinase kinase kinase 1 (MEK kinase kinase 1 | MEKKK 1); 2.7.11.1; M4K1_MOUSE; Hematopoietic progenitor kinase (HPK); mitogen-activated protein kinase kinase kinase kinase 1; hematopoietic progenitor kinase 1; MAP4K1 | HPK1 (phospho-S171); p-HPK1; phospho-HPK1; p-MAP4K1; MAP4K1 | HPK1 (phospho-Ser171)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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