

Rabbit HPK1 Polyclonal Antibody | anti-HPK1 antibody

Phospho-HPK1 (Ser421) Antibody

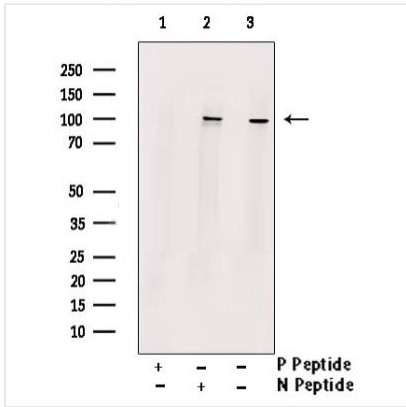
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329416	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Sheep (100%), Rabbit (100%), Dog (100%)	ELISA, Western Blot

PRODUCT SYNONYMS

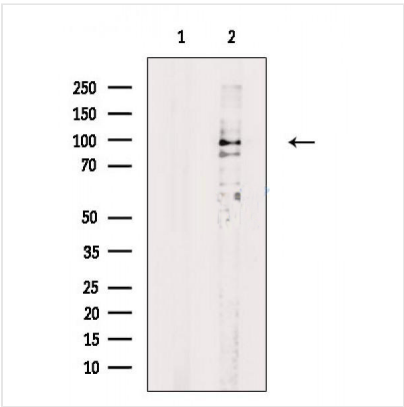
HPK1; Polyclonal Antibody; Phospho-HPK1 (Ser421) Antibody; Hematopoietic progenitor kinase 1; Hematopoietic progenitor kinase; Human Hematopoietic Progenitor Kinase; M4K1_HUMAN; Map4k1; MAPK/ERK kinase kinase kinase 1; MEK kinase kinase 1; MEKKK 1; Mitogen activated protein kinase kinase kinase 1; Mitogen-activated protein kinase kinase kinase kinase 1; anti-HPK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-HPK1 (Ser421) Antibody detects endogenous levels of HPK1 only when phosphorylated at Ser421. Tissue Specificity: 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.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-HPK1 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HPK1 around the phosphorylation site of Ser421.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Autophosphorylates: phosphorylation promotes ubiquitination by the Cul7-RING (FBXW8) ubiquitin-protein ligase complex, leading to its degradation by the proteasome. Tyrosine-phosphorylated after activation of hemopoietic cells. Ubiquitinated by the Cul7-RING (FBXW8) ubiquitin-protein ligase complex following autophosphorylation, leading to its degradation by the proteasome.
Subunit Structure	Interacts with MAP3K1. Interacts with FBXW8. Interacts with CLNK (via its SH2 domain) (By similarity).
Similarity	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from Raji , using Phospho-HPK1(Ser421) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from RAW264.7 cells(LPS 4h treatment), using Phospho-HPK1 (Ser421) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HPK1 antibody	Serine/threonine-protein kinase, which 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. Able to autophosphorylate. Together with CLNK, it enhances CD3-triggered activation of T-cells and subsequent IL2 production (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	110611908
NCBI GeneID	11184
NCBI Accession #	NP_001036065.1
NCBI GenBank Nucleotide #	NM_001042600.1
UniProt Accession #	Q92918
Molecular Weight	91,296 Da
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase kinase 1 isoform 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase kinase 1
NCBI Official Symbol	MAP4K1
NCBI Official Synonym Symbols	HPK1
NCBI Protein Information	mitogen-activated protein kinase kinase kinase kinase 1; MEKKK 1; MEK kinase kinase 1; MAPK/ERK kinase kinase kinase 1; hematopoietic progenitor kinase 1
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase kinase 1
UniProt Gene Name	MAP4K1
UniProt Synonym Gene Names	HPK1; MEK kinase kinase 1; MEKKK 1
UniProt Entry Name	M4K1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.