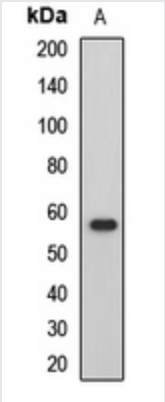
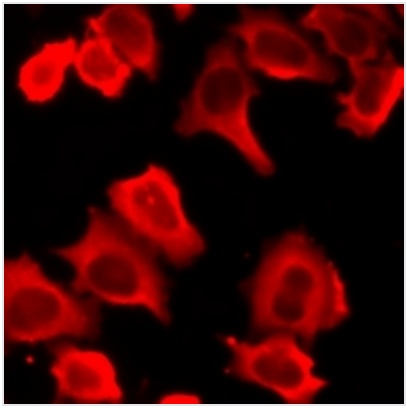
HCK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HCK, Polyclonal Antibody
Full Product Name	Anti-HCK Antibody
Product Gene Name	anti-HCK antibody
Product Synonym Names	Tyrosine-protein kinase HCK; Hematopoietic cell kinase; Hemopoietic cell kinase; p59-HCK/p60-HCK; p59Hck; p61Hck
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	Purified by immunogen affinity chromatography
Specificity	Recognizes endogenous levels of HCK protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	59,529 Da
OMIM	M16591 mRNA
3D Structure	ModBase 3D Structure for P08631
Immunogen	Recombinant full length protein of human HCK
Applications Tested/Suitable for anti-HCK antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-HCK antibody	WB: 1/500 - 1/2000 IF/ICC: 1/50 - 1/200
Related Product Information for anti-HCK antibody	MBS8291911 is an antibody targeting HCK. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to HCK
Other Notes	Small volumes of anti-HCK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-HCK antibody
Western blot analysis of HCK expression in HL60 (A) whole cell lysates.



Immunofluorescence (IF) of anti-HCK antibody
Immunofluorescent analysis of HCK staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HCK. It may not necessarily be applicable to this product.

NCBI GI #	287326139
NCBI GeneID	3055
NCBI Accession #	NP_001165600.1
UniProt Primary Accession #	P08631
UniProt Secondary Accession #	Q29RX1; Q2VPE2; Q504R5; Q5T7K1; Q5T7K2; Q96CC0; Q9H5Y5; Q9NUA4; A8K1I1; B4DQB6; E1P5M2
UniProt Related Accession #	P08631
GenBank Nucleotide #	NM_001172129.1
NCBI Official Full Name	tyrosine-protein kinase HCK isoform b
NCBI Official Synonym Full Names	HCK proto-oncogene, Src family tyrosine kinase
NCBI Official Symbol	HCK
NCBI Official Synonym Symbols	JTK9; p59Hck; p61Hck
UniProt Protein Name	Tyrosine-protein kinase HCK
UniProt Synonym Protein Names	Hematopoietic cell kinase; Hemopoietic cell kinase; p59-HCK/p60-HCK; p59Hck; p61Hck
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	HCK
NCBI Protein Information	tyrosine-protein kinase HCK
NCBI Summary for HCK	The protein encoded by this gene is a member of the Src family of tyrosine kinases. This protein is primarily hemopoietic, particularly in cells of the myeloid and B-lymphoid lineages. It may help couple the Fc receptor to the activation of the respiratory burst. In addition, it may play a role in neutrophil migration and in the degranulation of neutrophils. Multiple isoforms with different subcellular distributions are produced due to both alternative splicing and the use of alternative translation initiation codons, including a non-AUG (CUG) codon. [provided by RefSeq, Feb 2010]

UniProt Comments for HCK	Non-receptor tyrosine-protein kinase found in hematopoietic cells that transmits signals from cell surface receptors and plays an important role in the regulation of innate immune responses, including neutrophil, monocyte, macrophage and mast cell functions, phagocytosis, cell survival and proliferation, cell adhesion and migration. Acts downstream of receptors that bind the Fc region of immunoglobulins, such as FCGR1A and FCGR2A, but also CSF3R, PLAUR, the receptors for IFNG, IL2, IL6 and IL8, and integrins, such as ITGB1 and ITGB2. During the phagocytic process, mediates mobilization of secretory lysosomes, degranulation, and activation of NADPH oxidase to bring about the respiratory burst. Plays a role in the release of inflammatory molecules. Promotes reorganization of the actin cytoskeleton and actin polymerization, formation of podosomes and cell protrusions. Inhibits TP73-mediated transcription activation and TP73-mediated apoptosis. Phosphorylates CBL in response to activation of immunoglobulin gamma Fc region receptors. Phosphorylates ADAM15, BCR, ELMO1, FCGR2A, GAB1, GAB2, RAPGEF1, STAT5B, TP73, VAV1 and WAS.
Research Articles on HCK	**1.** Lysophosphatidylcholines prime polymorphonuclear neutrophil through Hck-dependent activation of PKCdelta, which stimulates PKCgamma, resulting in translocation of phosphorylated p47(phox).
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