HCK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HCK, Polyclonal Antibody
Full Product Name	HCK, NT (HCK, Tyrosine-protein kinase HCK, Hematopoietic cell kinase, Hemopoietic cell kinase, p59-HCK/p60-HCK, p59Hck, p61Hck) (MaxLight 750)
Product Gene Name	anti-HCK antibody
Product Synonym Names	HCK; Tyrosine-protein kinase HCK; Hematopoietic cell kinase; Hemopoietic cell kinase; p59-HCK/p60-HCK; p59Hck; p61Hck
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	59,529 Da
OMIM	142370
3D Structure	ModBase 3D Structure for P08631
Immunogen	HCK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 138-167 amino acids from the N-terminal region of human HCK.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-HCK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-HCK antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-HCK antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-HCK antibody	HCK 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].
Product References and Citations for anti-HCK antibody	Hassan, R., et al. J. Cell. Physiol. 221(2):458-468(2009). Kennah, E., et al. Blood 113(19):4646-4655(2009). Voss, M., et al. BMC Immunol. 10, 53 (2009): Rikova, K., et al. Cell 131(6):1190-1203(2007).

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.
Searchable Terms for HCK purchase	MBS6305799 is an antibody targeting HCK. Also known as HCK, NT (HCK, Tyrosine-protein kinase HCK, Hematopoietic cell kinase, Hemopoietic cell kinase, p59-HCK/p60-HCK, p59Hck, p61Hck) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	30795229
NCBI GeneID	3055
NCBI Accession #	NP_002101
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_002110.3
NCBI Official Full Name	tyrosine-protein kinase HCK isoform a
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
UniProt Entry Name	HCK_HUMAN
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	Hck: a protein-tyrosine kinase of the Src family that is predominantly expressed in hemopoietic cell types. The encoded protein 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. Alternate translation initiation site usage, including a non-AUG (CUG) codon, results in the production of two different isoforms that have different subcellular localization. Protein type: Oncoprotein; Protein kinase, tyrosine (non-receptor); Protein kinase, TK; EC 2.7.10.2; Kinase, protein; TK group; Src family Chromosomal Location of Human Ortholog: 20q11-q12 Cellular Component: Golgi apparatus; extrinsic to internal side of plasma membrane; transport vesicle; focal adhesion; cell projection; lysosome; actin filament; caveola; nucleus; cytosol Molecular Function: protein binding; protein-tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; ATP binding; receptor binding Biological Process: peptidyl-tyrosine phosphorylation; respiratory burst after phagocytosis; viral reproduction; protein amino acid autophosphorylation; regulation of phagocytosis; protein amino acid phosphorylation; regulation of cell shape; leukocyte migration during immune response; regulation of transcription factor activity; leukocyte degranulation; positive regulation of cell proliferation; lipopolysaccharide-mediated signaling pathway; mesoderm development; inflammatory response; innate immune response-activating signal transduction; cell adhesion; cell differentiation; integrin-mediated signaling pathway; cytokine and chemokine mediated signaling pathway; regulation of defense response to virus by virus; positive regulation of actin filament polymerization; regulation of inflammatory response; innate immune response; transmembrane receptor protein tyrosine kinase signaling pathway; negative regulation of apoptosis
Research Articles on HCK	**1.** we provide evidence for involvement of HCK and FGR in FCRL4-mediated immunoregulation and for the functional importance of posttranslational modifications of the FCRL4 molecule.
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