SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Hck antibody

Catalog Number: SL1438R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Hck
Immunogen:	KLH conjugated synthetic peptide derived from human Hck: 301-450/526
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	58kDa
Subcellular Location:	The nucleus cytoplasmic The cell membrane
Background:	HCK is a tyrosine kinase that is predominantly expressed in hemopoietic cell types. 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. **Subunit:** Interacts (via SH2 domain) with FLT3 (tyrosine phosphorylated). Interacts with VAV1, WAS and RAPGEF1. Interacts (via SH3 domain) with HIV-1 Nef and Vif. This interaction stimulates its tyrosine-kinase activity. Interacts (via SH3 domain) with HEV ORF3 protein. Interacts with ARRB1 and ARRB2. Interacts with ADAM15. Interacts with FASLG. Interacts with CBL. Interacts with FCGR1A; the interaction may be indirect. Interacts with

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	IL6ST. Interacts (via SH3 domain) with ELMO1. Interacts (via SH3 domain) with TP73. Interacts with YAP1. Interacts with ABL1 and ITGB1, and thereby recruits ABL1 to activated ITGB1. **Subcellular Location:** Isoform 1: Lysosome. Membrane; Lipid-anchor. Cell projection, podosome membrane; Lipid-anchor. Cytoplasm, cytosol. Note=Associated with specialized secretory lysosomes called azurophil granules. At least half of this isoform is found in the cytoplasm, some of this fraction is myristoylated. Isoform 2: Cell membrane; Lipid-anchor. Membrane, caveola; Lipid-anchor. Cell junction, focal adhesion. Cytoplasm, cytoskeleton. Golgi apparatus. Cytoplasmic vesicle. Lysosome. Nucleus. Note=20% of this isoform is associated with caveolae. Localization at the cell membrane and at caveolae requires palmitoylation at Cys-3. Colocalizes with the actin cytoskeleton at focal adhesions. Cytoplasmic vesicle, secretory vesicle. Cytoplasm, cytosol. **Tissue Specificity:** Detected in monocytes and neutrophils (at protein level). Expressed predominantly in cells of the myeloid and B-lymphoid lineages. Highly expressed in granulocytes. Detected in tonsil. **Similarity:** Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain. **Database links:** **Entrez Gene:** 3055 Human **Entrez Gene:** 15162 Mouse **Entrez Gene:** 25734 Rat Omim: 142370 Human **SwissProt:** P08631 Human **SwissProt:** P08103 Mouse **SwissProt:** P50545 Rat **Unigene:** 655210 Human **Unigene:** 715 Mouse **Unigene:** 10945 Rat Kinases and Phosphatases（Kinases and Phosphatases）

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