# Hck (18): sc-136289



The Power to Question

## **BACKGROUND**

Src is the human homolog of the v-Src gene of the Rous sarcoma virus, also called avian sarcoma virus or ASV. Src was the first proto-oncogenic non-receptor tyrosine kinase characterized in human. By virtue of common structural motifs, the Src family is composed of nine members in vertebrates, including Src, Yes, Fgr, Frk, Fyn, Lyn, Hck, Lck and Blk. Src-family kinases transduce signals that are involved in the control of a variety of cellular processes, including proliferation, differentiation, motility and adhesion. Src family kinases contain an amino-terminal cell membrane anchor followed by an SH3 domain and an SH2 domain involved in modular association and activation, respectively. Src family kinases are normally maintained in an inactive state and can be activated transiently during cellular events such as mitosis. Different subcellular localizations of Src family kinases may be important for the regulation of specific cellular processes such as mitogenesis, cytoskeletal organization and membrane trafficking. The human hemopoietic cell kinase (Hck) gene maps to chromosome 20q11.21 and encodes a 505 amino acid protein. The Hck protein is expressed in hematopoietic cells, and is particularly abundant in granulocytes.

## **REFERENCES**

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- Korade-Mirnics, Z., et al. 2000. Src kinase-mediated signaling in leukocytes.
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# CHROMOSOMAL LOCATION

Genetic locus: HCK (human) mapping to 20q11.21.

#### SOURCE

Hck (18) is a mouse monoclonal antibody raised against amino acids 2-300 of Hck of human origin.

## **PRODUCT**

Each vial contains 50  $\mu g \ lg G_1$  in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures. Not for resale.

#### **APPLICATIONS**

Hck (18) is recommended for detection of Hck of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

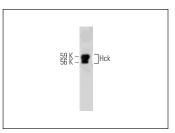
Hck (18) is also recommended for detection of Hck in additional species, including canine.

Suitable for use as control antibody for Hck siRNA (h): sc-35536, Hck shRNA Plasmid (h): sc-35536-SH and Hck shRNA (h) Lentiviral Particles: sc-35536-V.

Molecular Weight of Hck: 59/60 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209 or U-937 cell lysate: sc-2239.

#### **DATA**



Hck (18): sc-136289. Western blot analysis of Hck expression in MDCK whole cell lysate.

## **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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