

# Sck (R12.1): sc-100855

## BACKGROUND

Src homology 2 (SH2) domains bind specifically to tyrosine-phosphorylated proteins that temporally participate in signal transduction events. Shc-like protein (Sck) is a neuronal adaptor protein that contains an N-terminal PTB (phosphotyrosine binding) domain, a collagen homology (CH) domain and a conserved C-terminal SH2 domain. Human Sck transcripts are present at high levels in liver, pancreas, prostate and ovary. In vascular endothelial cells, Sck participates in VEGF-induced signal transduction. Treatment of human umbilical vein endothelial cells (HUVEC) with VEGF induces recruitment of Sck to Tyrosine 1175 of the kinase insert domain-containing receptor (KDR) and enhances Sck tyrosine phosphorylation.

## REFERENCES

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5. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2000. Johns Hopkins University, Baltimore, MD. MIM Number: 605217. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
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## CHROMOSOMAL LOCATION

Genetic locus: SHC2 (human) mapping to 19p13.3; Shc2 (mouse) mapping to 10 C1.

## SOURCE

Sck (R12.1) is a mouse monoclonal antibody raised against recombinant Sck of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 100 µg IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Sck (R12.1) is recommended for detection of Sck of mouse, rat and 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Sck siRNA (h): sc-40928, Sck siRNA (m): sc-40929, Sck shRNA Plasmid (h): sc-40928-SH, Sck shRNA Plasmid (m): sc-40929-SH, Sck shRNA (h) Lentiviral Particles: sc-40928-V and Sck shRNA (m) Lentiviral Particles: sc-40929-V.

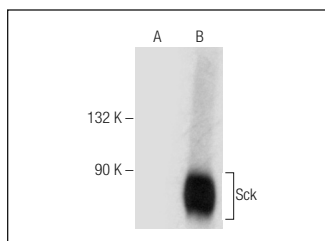
Molecular Weight of Sck: 68 kDa.

Positive Controls: Sck (h): 293T Lysate: sc-372116 or IMR-32 cell lysate: sc-2409.

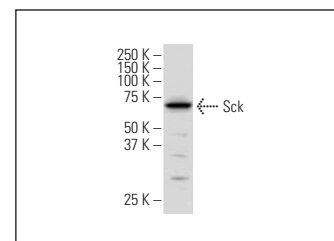
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## DATA



Sck (R12.1): sc-100855. Western blot analysis of Sck expression in non-transfected: sc-117752 (A) and human Sck transfected: sc-372116 (B) 293T whole cell lysates.



Sck (R12.1): sc-100855. Western blot analysis of Sck expression in IMR-32 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](http://www.scbt.com) for detailed protocols and support products.