

Anti-SRC Antibody

R1312-9



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 60 kDa

Description: Src (pronounced "sarc" as it is short for sarcoma) is a proto-oncogene encoding a tyrosine kinase. It belongs to a family of non-receptor tyrosine kinases called Src family kinases. c-Src is made up of 6 functional regions: Src homology (SH) 4 domain (SH4 domain), unique region, SH3 domain, SH2 domain, catalytic domain and short regulatory tail. When Src is inactive, the phosphorylated tyrosine group at the 527 position interacts with the SH2 domain which helps the SH3 domain interact with the linker domain and consequently keeps the inactive unit tightly bound. The activation of c-Src causes the dephosphorylation of the tyrosine 527 which causes the structure to be destabilized and then result in the opening up of the SH3, SH2 and the kinase domains and autophosphorylation of tyrosine 416. The activation of the c-Src pathway has been observed in about 50% of tumors from colon, liver, lung, breast and the pancreas.

Immunogen: Synthetic peptide within C-terminal human SRC.

Positive control: Jurkat, PC12, HeLa

Subcellular location: Cell membrane, nucleus, cytoplasm

Database links: SwissProt: P12931 Human | P05480 Mouse | Q9WJD9 Rat

Recommended Dilutions:

WB	1:1000-1:2000
IF-Cell	1:100-1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Images

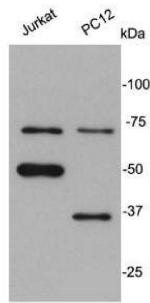


Fig1: Western blot analysis on cell lysates using anti-SRC rabbit polyclonal antibodies.

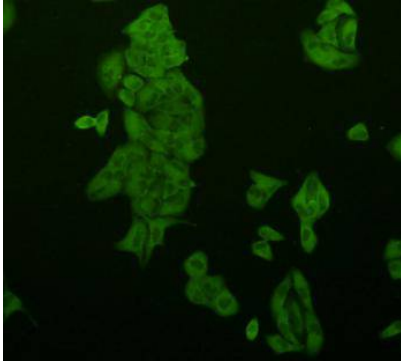


Fig2: ICC staining SRC in HeLa cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. "beta-arrestin1 interacts with the catalytic domain of the tyrosine kinase c-SRC. Role of beta-arrestin1-dependent targeting of c-SRC in receptor endocytosis." Miller W.E., Maudsley S., Ahn S., Khan K.D., Luttrell L.M., Lefkowitz R.J. *J. Biol. Chem.* 275:11312-11319(2000)
2. "Development and characterization of potent and specific peptide inhibitors of p60c-src protein tyrosine kinase using pseudosubstrate-based inhibitor design approach." Kamath J.R., Liu R., Enstrom A.M., Lou Q., Lam K.S. *J. Pept. Res.* 62:260-268(2003)
3. "The tyrosine kinase c-Src enhances RIG-I (retinoic acid-inducible gene I)-elicited antiviral signaling." Johnsen I.B., Nguyen T.T., Bergstrom B., Fitzgerald K.A., Anthonen M.W. *J. Biol. Chem.* 284:19122-19131(2009)

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