

Anti-Src Antibody Picoband™

Catalog Number: PB9059

About SRC

Sarcoma (Scr) is a proto-oncogenic tyrosine kinase originally discovered by J. Michael Bishop and Harold E. Varmus. belongs to a family of non-receptor tyrosine kinases called Src family kinases. The human SRC protooncogene was assigned to chromosome 20. Its gene is mapped to 20q12-q13. The discovery of Src family proteins has been instrumental to the modern understanding of cancer as a disease where normally healthy cellular signalling has gone awry. This proto-oncogene may play a role in the regulation of embryonic development and cell growth.

Overview

Product Name	Anti-Src Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Src Antibody Picoband™ catalog # PB9059. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human.
Application	Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P12931

Technical Details

Immunogen	E.coli-derived human Src recombinant protein (Position: G2-D368). Human Src shares 97% and 99% amino acid (aa) sequences identity with mouse and rat Src, respectively.
Predicted Reactive Species	Bovine, Horse
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, By Heat Flow Cytometry, 1-3 ug/1x10⁶ cells, Human

Anti-Src Antibody Picoband™ (PB9059) Images

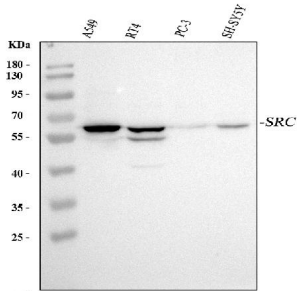


Figure 1. Western blot analysis of Src using anti-Src antibody (PB9059).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A549 whole cell lysates,

Lane 2: human RT4 whole cell lysates,

Lane 3: human PC-3 whole cell lysates,

Lane 4: human SH-SY5Y whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes.

Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT.

The membrane was incubated with rabbit anti-Src antigen affinity purified polyclonal antibody (Catalog # PB9059) at 0.5 ug/mL overnight at 4°C,

then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT.

The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system.

A specific band was detected for Src at approximately 60 kDa. The expected band size for Src is at 60 kDa.

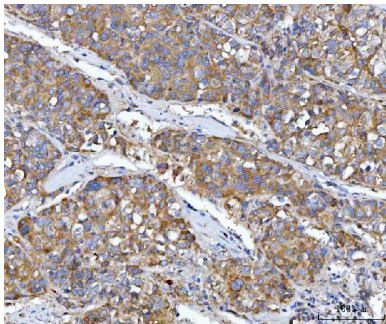


Figure 2. IHC analysis of Src using anti-Src antibody (PB9059).

Src was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution).

The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Src Antibody (PB9059) overnight at 4°C.

Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C.

The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

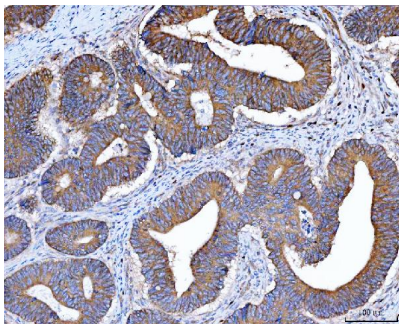


Figure 3. IHC analysis of Src using anti-Src antibody (PB9059).

Src was detected in a paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution).

The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Src Antibody (PB9059) overnight at 4°C.

Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C.

The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

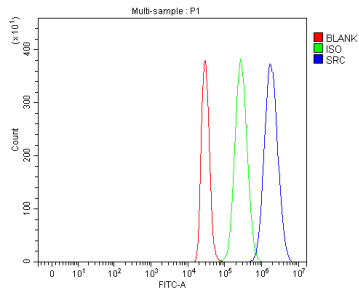


Figure 4. Flow Cytometry analysis of HepG2 cells using anti-Src antibody (PB9059). Overlay histogram showing HepG2 cells stained with PB9059 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Src Antibody (PB9059, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

5 Publications Citing This Product

1. PubMed ID: 10.18632/oncotarget.3060, Slit2/Robo1 signaling promotes intestinal tumorigenesis through Src-mediated activation of the Wnt/beta-catenin pathway
2. PubMed ID: 10.2147/DDDT.S265198, Integrated Network Pharmacology Analysis and Experimental Validation to Reveal the Mechanism of Anti-Insulin Resistance Effects of Moringa oleifera Seeds
3. PubMed ID: 10.1016/j.ecoenv.2021.112257, Increased secretion of VEGF-C from SiO₂-induced pulmonary macrophages promotes lymphangiogenesis through the Src/eNOS pathway in silicosis

Visit bosterbio.com/anti-src-picoband-trade-antibody-pb9059-boster.html to see all 5 publications.

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