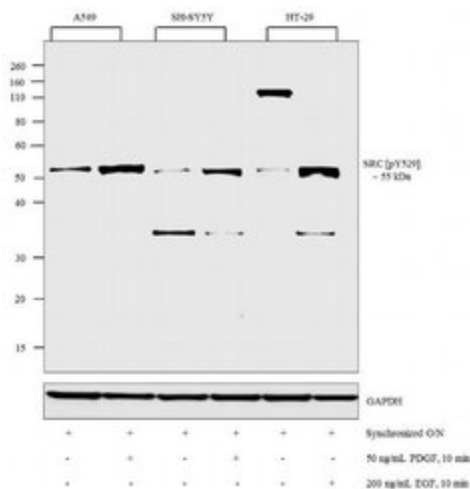


# Phospho-SRC (Tyr529) Polyclonal Antibody

| Product Details    |   |
|--------------------|---|
| Size               | 100 µL  |
| Species            | Mouse, Rat, Chicken, Human  |
| Published Species  | Rat, Bovine, Human, Mouse   |
| Expression System  | Rabbit / IgG  |
| Class              | Polyclonal  |
| Type               | Antibody  |
| Conjugate          | Unconjugated  |
| Immunogen          | The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human Src that contains tyrosine 529 (tyrosine 530 including the initiating methionine). The sequence is conserved in mouse, rat, chicken and frog. |
| Form               | Liquid  |
| Purification       | Antigen affinity chromatography   |
| Storage buffer     | Dulbecco's PBS, pH 7.3, with 50% glycerol, 1mg/mL BSA   |
| Contains           | 0.05% sodium azide  |
| Storage Conditions | -20°C   |
| RRID               | AB_2533715  |

| Applications                              | Tested Dilution | Publications   |
|---|-----------------|----------------|
| Immunocytochemistry (ICC)                 | 1 µg/mL         | -              |
| Immunofluorescence (IF)                   | 1 µg/mL         | -              |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:50-1:500      | -              |
| Western Blot (WB)                         | 1:1000          | 7 Publications |
| Immunoprecipitation (IP)                  | -               | 3 Publications |
| Miscellaneous PubMed (Misc)               | -               | 1 Publication  |

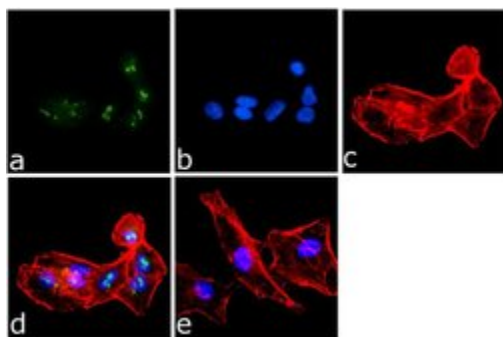
## Advanced Verification Data



### Phospho-SRC (Tyr529) Antibody (44-662G)

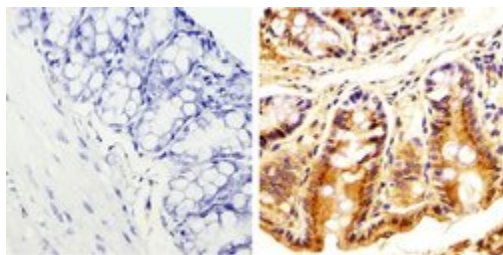
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of Phospho-SRC (Tyr529) using Anti - SRC (pY529) Rabbit polyclonal Antibody (Product # 44-662G), shows increase in expression of SRC (pY529) upon treatment with PDGF for a synchronised A549 and SHSY5Y cell population. Also, increase in expression of Phospho-SRC (Tyr529) is observed upon treatment EGF for a HT-29 synchronised cell population. Cell treatment validation info.

## Product Images For Phospho-SRC (Tyr529) Polyclonal Antibody



### Phospho-SRC (Tyr529) Antibody (44-662G) in IF

Immunofluorescence analysis of SRC (pY529) was done on 70% confluent log phase A549 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with SRC (pY529) Rabbit Polyclonal Antibody (Product # 44-662G) at 1 µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing Nuclear localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



### Phospho-SRC (Tyr529) Antibody (44-662G) in IHC (P)

Immunohistochemistry analysis of SRC showing staining in the cytoplasm and membrane of paraffin-embedded mouse colon tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with a SRC polyclonal antibody (Product # 44-662G) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

View more figures on [thermofisher.com](https://thermofisher.com)

## 11 References

### Western Blot (7)

Pharmacological reports : PR

#### Hyaluronan oligosaccharides promote diabetic wound healing by increasing angiogenesis.

"44662G was used in western blot to investigate if hyaluronan oligosaccharides assist wound healing in diabetic patients"

Authors: Wang Y,Han G,Guo B,Huang J

**Species**  
Rat

**Dilution**  
1:1000

**Year**  
2016

Glia

#### Fyn is an intermediate kinase that BDNF utilizes to promote oligodendrocyte myelination.

"44-662G was used in western blot to study how BDNF activation and phosphorylation of Fyn regulate oligodendrocyte myelination."

Authors: Peckham H,Giuffrida L,Wood R,Gonsalvez D,Ferner A,Kilpatrick TJ,Murray SS,Xiao J

**Species**  
Rat  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2016

[View more WB references on thermofisher.com](#)

### Miscellaneous PubMed (1)

Glia

#### Fyn is an intermediate kinase that BDNF utilizes to promote oligodendrocyte myelination.

"44-662G was used in western blot to study how BDNF activation and phosphorylation of Fyn regulate oligodendrocyte myelination."

Authors: Peckham H,Giuffrida L,Wood R,Gonsalvez D,Ferner A,Kilpatrick TJ,Murray SS,Xiao J

**Species**  
Rat  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2016

### Immunoprecipitation (3)

The Journal of biological chemistry

#### Phosphatidylinositol phosphate 5-kinase li2 in association with Src controls anchorage-independent growth of tumor cells.

"44-662G was used in immunoprecipitation and western blot to study how tumor cells sustain oncogenic signals in the absence of cell matrix interactions."

Authors: Thapa N,Choi S,Hedman A,Tan X,Anderson RA

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2013

[View more IP references on thermofisher.com](#)

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