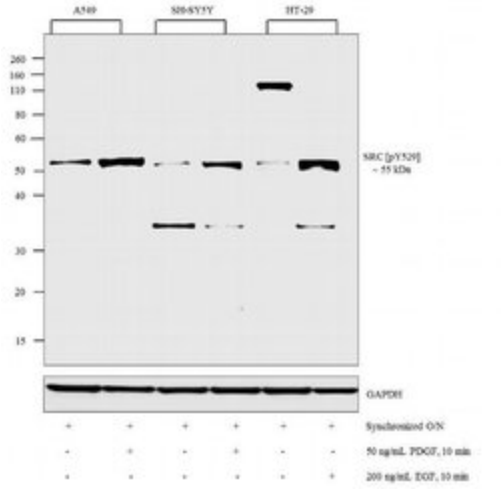
Phospho-SRC (Tyr529) Polyclonal Antibody

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

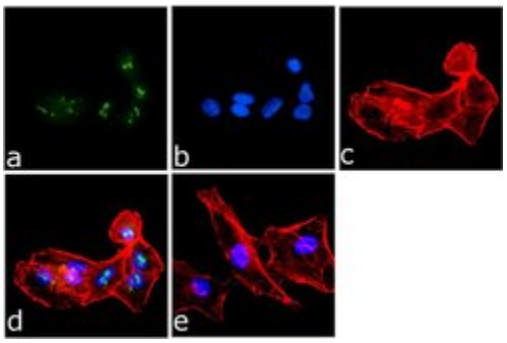
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1 µg/mL	-
Immunofluorescence (IF)	1 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:500	-
Western Blot (WB)	1:1000	7 Publications
Immunoprecipitation (IP)	-	3 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Advanced Verification Data

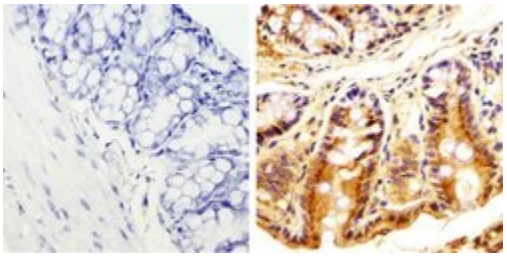


Phospho-SRC (Tyr529) Antibody (44-662G)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of Phospho-SRC (Tyr529) using Anti - SRC (pY529) Rabbit polyclonal Antibody (Product # 44-662G), shows increase in expression of SRC (pY529) upon treatment with PDGF 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% H2O2-methanol for 15 min at room temperature, washed with ddH2O 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.

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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 Ii2 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

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