

Anti-Phospho-Src (Y419) Antibody [ST0800]

ET1609-15



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, FC, IF-Cell
Molecular Wt:	Predicted band size: 60 kDa
Clone number:	ST0800

Description: The Src family of protein tyrosine kinases, which includes Src, Lyn, Fyn, Yes, Lck, Blk, and Hck, are important in the regulation of growth and differentiation of eukaryotic cells. Dephosphorylated at Tyr-530 by PTPRJ (By similarity). Phosphorylated on Tyr-530 by c-Src kinase (CSK). The phosphorylated form is termed pp60c-src. Dephosphorylated by PTPRJ at Tyr-419. Normally maintained in an inactive conformation with the SH2 domain engaged with Tyr-530, the SH3 domain engaged with the SH2-kinase linker, and Tyr-419 dephosphorylated. Dephosphorylation of Tyr-530 as a result of protein tyrosine phosphatase (PTP) action disrupts the intramolecular interaction between the SH2 domain and Tyr-530, Tyr-419 can then become autophosphorylated, resulting in SRC activation. Phosphorylation of Tyr-530 by CSK allows this interaction to reform, resulting in SRC inactivation. S-nitrosylation is important for activation of its kinase activity.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Tyr419 of Human Src aa 401-450 / 536.

Positive control: HeLa treated with 100ng/mL Calyculin A for 30 minutes cell lysate, A431 cell lysates, A549, SH-SY5Y, Hela.

Subcellular location: Cell membrane, Mitochondrion inner membrane, Nucleus, Cytoplasm.

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

Recommended Dilutions:

WB	1:1,000
FC	1:50-1:100
IF-Cell	1:50

Storage Buffer: 1*TBS (pH7.4), 0.05% 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: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

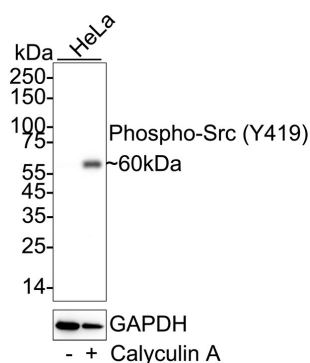
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Images

Fig1: Western blot analysis of Phospho-Src (Y419) on different lysates with Rabbit anti-Phospho-Src (Y419) antibody (ET1609-15) at 1/1,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 100ng/mL Calyculin A for 30 minutes cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 60 kDa

Observed band size: 60 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1609-15) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Phospho-Src (Y419) on A431 cell lysates with Rabbit anti-Phospho-Src (Y419) antibody (ET1609-15) at 1/1,000 dilution.

Lysates/proteins at 20 µg/Lane.

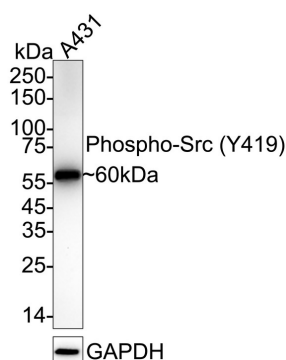
Predicted band size: 60 kDa

Observed band size: 60 kDa

Exposure time: 59 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1609-15) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.



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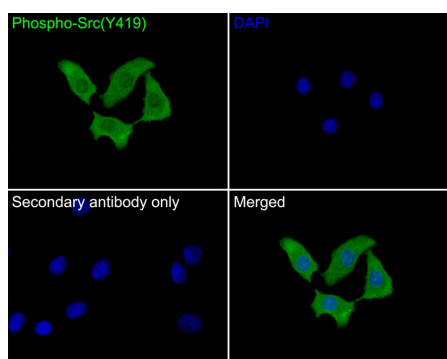


Fig3: Immunocytochemistry analysis of A549 cells labeling Phospho-Src (Y419) with Rabbit anti-Phospho-Src (Y419) antibody (ET1609-15) at 1/50 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-Phospho-Src (Y419) antibody (ET1609-15) at 1/50 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

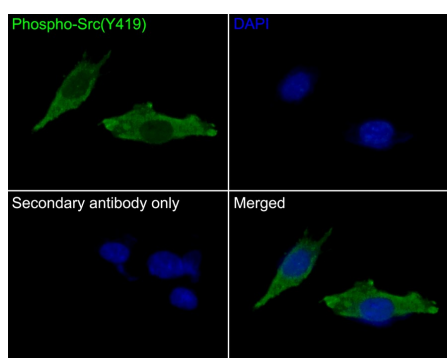


Fig4: Immunocytochemistry analysis of SH-SY5Y cells labeling Phospho-Src (Y419) with Rabbit anti-Phospho-Src (Y419) antibody (ET1609-15) at 1/50 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-Phospho-Src (Y419) antibody (ET1609-15) at 1/50 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

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

Background References

1. Villacis RA et al. Gene expression profiling in leiomyosarcomas and undifferentiated pleomorphic sarcomas: SRC as a new diagnostic marker. PLoS One 9:e102281 (2014).
2. Dou X & Charness ME Effect of lipid raft disruption on ethanol inhibition of I1 adhesion. Alcohol Clin Exp Res 38:2707-11 (2014).

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