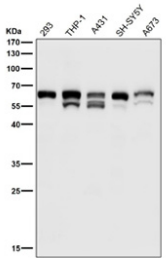
Phospho-Src (Tyr529) Antibody [clone 32S01] (FY12031)

Catalog No.	Formulation	Size
FY12031	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

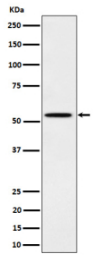
Recombinant RABBIT MONOCLONAL

Bulk quote request

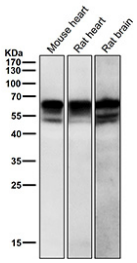
Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	32S01
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	P12931
Applications	Western Blot : 1:500-1:2000 Immunocytochemistry/Immunofluorescence : 1:50-1:200
Limitations	This Phospho-Src (Tyr529) antibody is available for research use only.



All lanes use the antibody at 1:3K dilution for 1 hour at room temperature. Expected size for c-Src (phospho-Tyr529) ~60 kDa. Observed (possible) doublet at ~55 kDa and ~60 kDa likely reflects full-length and slightly modified/truncated phosphorylated forms of c-Src, consistent with literature indicating Src family kinases migrate in the 55-62 kDa range.



Western blot analysis of Phospho-Src (Y529) expression in cell treated with EGF lysate. Expected size for c-Src (phospho-Tyr529) ~60 kDa. Observed (possible) doublet at ~55 kDa and ~60 kDa likely reflects full-length and slightly modified/truncated phosphorylated forms of c-Src, consistent with literature indicating Src family kinases migrate in the 55-62 kDa range.



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Description

Phospho-Src (Tyr529) antibody detects Src kinase phosphorylated at tyrosine 529, a regulatory modification that maintains Src in an inactive conformation. Src is a non-receptor tyrosine kinase involved in diverse cellular pathways, including proliferation, adhesion, and cytoskeletal dynamics. Phosphorylation at Tyr529 creates an intramolecular interaction that suppresses kinase activity until signaling cues trigger dephosphorylation and activation.

Research employing Phospho-Src (Tyr529) antibody has shown that deregulation of this phosphorylation site contributes to oncogenesis. Loss of inhibitory phosphorylation at Tyr529 results in constitutively active Src, promoting tumor cell invasion, angiogenesis, and metastasis. Beyond cancer, Src regulation impacts immune signaling, bone metabolism, and neuronal communication, underscoring its broad biological relevance.

Antibodies specific for Src phosphorylated at Tyr529 are used in assays such as western blot, immunoprecipitation, and immunofluorescence. These reagents allow scientists to measure Src activation status and investigate how signaling pathways modulate its phosphorylation. Clone-validated specificity ensures recognition of only the phosphorylated form, avoiding cross-reactivity with total Src protein.

NSJ Bioreagents supplies this Phospho-Src (Tyr529) antibody to support research into cancer signaling, kinase regulation, and cellular communication. Alternate names include proto-oncogene tyrosine-protein kinase Src antibody and pp60c-Src antibody.

Application Notes

Optimal dilution of the Phospho-Src (Tyr529) antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Phospho-Src (Y529) was used as the immunogen for the Phospho-Src (Tyr529) antibody.

Storage

Store the Phospho-Src (Tyr529) antibody at -20oC.