# ANTIBODIES ONLINE

Datasheet for ABIN6265278 anti-Src antibody (N-Term)

3 Images



## Overview

Quantity:	100 µL
Target:	Src
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Src antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

## Product Details

Immunogen:	A synthesized peptide derived from human Src, corresponding to a region within N-terminal amino acids.
lsotype:	lgG
Specificity:	Src Antibody detects endogenous levels of total Src.
Predicted Reactivity:	Pig,Bovine,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).

# Target Details

Target:	Src	
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Target Details	
Alternative Name:	SRC (Src Products)
Target Type:	Viral Protein
Background:	Description: Non-receptor protein tyrosine kinase which is activated following engagement of
	many different classes of cellular receptors including immune response receptors, integrins
	and other adhesion receptors, receptor protein tyrosine kinases, G protein-coupled receptors as
	well as cytokine receptors. Participates in signaling pathways that control a diverse spectrum
	of biological activities including gene transcription, immune response, cell adhesion, cell cycle
	progression, apoptosis, migration, and transformation. Due to functional redundancy between
	members of the SRC kinase family, identification of the specific role of each SRC kinase is very
	difficult. SRC appears to be one of the primary kinases activated following engagement of
	receptors and plays a role in the activation of other protein tyrosine kinase (PTK) families.
	Receptor clustering or dimerization leads to recruitment of SRC to the receptor complexes
	where it phosphorylates the tyrosine residues within the receptor cytoplasmic domains. Plays
	an important role in the regulation of cytoskeletal organization through phosphorylation of
	specific substrates such as AFAP1. Phosphorylation of AFAP1 allows the SRC SH2 domain to
	bind AFAP1 and to localize to actin filaments. Cytoskeletal reorganization is also controlled
	through the phosphorylation of cortactin (CTTN) (Probable). When cells adhere via focal
	adhesions to the extracellular matrix, signals are transmitted by integrins into the cell resulting
	in tyrosine phosphorylation of a number of focal adhesion proteins, including PTK2/FAK1 and
	paxillin (PXN) (PubMed:21411625). In addition to phosphorylating focal adhesion proteins, SRC
	is also active at the sites of cell-cell contact adherens junctions and phosphorylates substrates
	such as beta-catenin (CTNNB1), delta-catenin (CTNND1), and plakoglobin (JUP). Another type
	of cell-cell junction, the gap junction, is also a target for SRC, which phosphorylates connexin-43
	(GJA1). SRC is implicated in regulation of pre-mRNA-processing and phosphorylates RNA-
	binding proteins such as KHDRBS1 (Probable). Also plays a role in PDGF-mediated tyrosine
	phosphorylation of both STAT1 and STAT3, leading to increased DNA binding activity of these
	transcription factors (By similarity). Involved in the RAS pathway through phosphorylation of
	RASA1 and RASGRF1 (PubMed:11389730). Plays a role in EGF-mediated calcium-activated
	chloride channel activation (PubMed:18586953). Required for epidermal growth factor receptor
	(EGFR) internalization through phosphorylation of clathrin heavy chain (CLTC and CLTCL1) at
	'Tyr-1477'. Involved in beta-arrestin (ARRB1 and ARRB2) desensitization through
	phosphorylation and activation of GRK2, leading to beta-arrestin phosphorylation and
	internalization. Has a critical role in the stimulation of the CDK20/MAPK3 mitogen-activated
	protein kinase cascade by epidermal growth factor (Probable). Might be involved not only in
	mediating the transduction of mitogenic signals at the level of the plasma membrane but also

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	in controlling progression through the cell cycle via interaction with regulatory proteins in the
	nucleus (PubMed:7853507). Plays an important role in osteoclastic bone resorption in
	conjunction with PTK2B/PYK2. Both the formation of a SRC-PTK2B/PYK2 complex and SRC
	kinase activity are necessary for this function. Recruited to activated integrins by PTK2B/PYK2,
	thereby phosphorylating CBL, which in turn induces the activation and recruitment of
	phosphatidylinositol 3-kinase to the cell membrane in a signaling pathway that is critical for
	osteoclast function (PubMed:8755529, PubMed:14585963). Promotes energy production in
	osteoclasts by activating mitochondrial cytochrome C oxidase (PubMed:12615910).
	Phosphorylates DDR2 on tyrosine residues, thereby promoting its subsequent
	autophosphorylation (PubMed:16186108). Phosphorylates RUNX3 and COX2 on tyrosine
	residues, TNK2 on 'Tyr-284' and CBL on 'Tyr-731' (PubMed:20100835, PubMed:21309750).
	Enhances DDX58/RIG-I-elicited antiviral signaling (PubMed:19419966). Phosphorylates PDPK1
	at 'Tyr-9', 'Tyr-373' and 'Tyr-376' (PubMed:14585963). Phosphorylates BCAR1 at 'Tyr-128'
	(PubMed:22710723). Phosphorylates CBLC at multiple tyrosine residues, phosphorylation at
	'Tyr-341' activates CBLC E3 activity (PubMed:20525694). Involved in anchorage-independent
	cell growth (PubMed:19307596). Required for podosome formation (By similarity).
	Gene: SRC
Molecular Weight:	Gene: SRC 55kDa
Molecular Weight: Gene ID:	Gene: SRC 55kDa 6714
Molecular Weight: Gene ID: UniProt:	Gene: SRC   55kDa 6714   P12931
Molecular Weight: Gene ID: UniProt: Pathways:	Gene: SRC   55kDa 6714   P12931 JAK-STAT Signaling, Neurotrophin Signaling Pathway, Intracellular Steroid Hormone Receptor
Molecular Weight: Gene ID: UniProt: Pathways:	Gene: SRC   55kDa   6714   P12931   JAK-STAT Signaling, Neurotrophin Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling, Cellular
Molecular Weight: Gene ID: UniProt: Pathways:	Gene: SRC55kDa6714P12931JAK-STAT Signaling, Neurotrophin Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Cellular Response to Molecule of Bacterial Origin, Cell-Cell Junction Organization, Regulation of
Molecular Weight: Gene ID: UniProt: Pathways:	Gene: SRC55kDa6714P12931JAK-STAT Signaling, Neurotrophin Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Cellular Response to Molecule of Bacterial Origin, Cell-Cell Junction Organization, Regulation of Carbohydrate Metabolic Process, Autophagy, CXCR4-mediated Signaling Events, Signaling
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Molecular Weight: Gene ID: UniProt: Pathways:	Gene: SRC55kDa6714P12931JAK-STAT Signaling, Neurotrophin Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Cellular Response to Molecule of Bacterial Origin, Cell-Cell Junction Organization, Regulation of Carbohydrate Metabolic Process, Autophagy, CXCR4-mediated Signaling Events, Signaling Events mediated by VEGFR1 and VEGFR2, Smooth Muscle Cell Migration, Negative Regulation of intrinsic apoptotic Signaling, Platelet-derived growth Factor Receptor Signaling,
Molecular Weight: Gene ID: UniProt: Pathways:	Gene: SRC55kDa6714P12931JAK-STAT Signaling, Neurotrophin Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Cellular Response to Molecule of Bacterial Origin, Cell-Cell Junction Organization, Regulation of Carbohydrate Metabolic Process, Autophagy, CXCR4-mediated Signaling Events, Signaling Events mediated by VEGFR1 and VEGFR2, Smooth Muscle Cell Migration, Negative Regulation of intrinsic apoptotic Signaling, Platelet-derived growth Factor Receptor Signaling, Thromboxane A2 Receptor Signaling, Signaling of Hepatocyte Growth Factor Receptor, VEGF
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Restrictions:

Application Notes:

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WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

## Images





#### Immunohistochemistry

**Image 1.** ABIN6269141 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

### Western Blotting

**Image 2.** Western blot analysis of Src expression in HeLa whole cell lysates,The lane on the left is treated with the antigen-specific peptide.

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#### Immunofluorescence (fixed cells)

**Image 3.** ABIN6269141 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

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