SRC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SRC, Polyclonal Antibody
Full Product Name	Src Rabbit pAb
Product Gene Name	anti-SRC antibody
Product Synonym Names	EC 2.7.10.2; p60-Src; c-Src; pp60; c-src
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	60kDa
OMIM	190090
3D Structure	ModBase 3D Structure for P12931
Immunogen	A synthesized peptide derived from human Src
Cellular Localization	Cell Membrane, Cytoplasm, Cytoskeleton, Membrane, Mitochondrion, Mitochondrion Inner Membrane, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SRC antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS)
Application Notes for anti-SRC antibody	WB: 1:1000-1:2000 IHC: 1:50-1:200 ICC/IF: 1:50-1:200 FC/FACS: 1:50
Related Product Information for anti-SRC antibody	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 (1). Src activity is regulated by tyrosine phosphorylation at two sites, but with opposing effects.
Other Notes	Small volumes of anti-SRC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SRC purchase	MBS8543054 is an antibody targeting SRC. Also known as Src Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SRC. It may not necessarily be applicable to this product.

NCBI GI #	4885609
NCBI GeneID	6714

NCBI Accession #	NP_005408.1
UniProt Primary Accession #	P12931
UniProt Related Accession #	P12931
GenBank Nucleotide #	NP_005408.1
NCBI Official Full Name	proto-oncogene tyrosine-protein kinase Src
NCBI Official Synonym Full Names	SRC proto-oncogene, non-receptor tyrosine kinase
NCBI Official Symbol	SRC
NCBI Official Synonym Symbols	ASV; SRC1; THC6; c-SRC; p60-Src
UniProt Protein Name	Proto-oncogene tyrosine-protein kinase Src
UniProt Synonym Protein Names	Proto-oncogene c-Src; pp60c-src
Protein Family	Neuronal proto-oncogene tyrosine-protein kinase
UniProt Gene Name	SRC
UniProt Synonym Gene Names	SRC1; p60-Src
UniProt Entry Name	SRC_HUMAN
NCBI Protein Information	proto-oncogene tyrosine-protein kinase Src
NCBI Summary for SRC	This gene is highly similar to the v-src gene of Rous sarcoma virus. This proto-oncogene may play a role in the regulation of embryonic development and cell growth. The protein encoded by this gene is a tyrosine-protein kinase whose activity can be inhibited by phosphorylation by c-SRC kinase. Mutations in this gene could be involved in the malignant progression of colon cancer. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for SRC	Src: proto-oncogenic cytoplasmic tyrosine kinase of the SRC family. Highly expressed in certain fully differentiated cells such as neurons, platelets and macrophages. Phosphorylation of an activation loop tyrosine activates the enzyme; phosphorylation of a tyrosine in the C-terminus by Csk inhibits the enzyme. Two alternatively spliced isoforms have been described. Protein type: Protein kinase, TK; EC 2.7.10.2; Kinase, protein; Oncoprotein; Protein kinase, tyrosine (non-receptor); TK group; Src family Chromosomal Location of Human Ortholog: 20q12-q13 Cellular Component: neuron projection; mitochondrion; lysosome; postsynaptic density; actin filament; caveola; cytosol; extrinsic to internal side of plasma membrane; perinuclear region of cytoplasm; late endosome; mitochondrial inner membrane; cytoplasm; plasma membrane; nucleus Molecular Function: protein C-terminus binding; ephrin receptor binding; non-membrane spanning protein tyrosine kinase activity; phosphoprotein binding; insulin receptor binding; protein kinase activity; integrin binding; protein binding; enzyme binding; SH3/SH2 adaptor activity; protein kinase C binding; protein-tyrosine kinase activity; heme binding; estrogen receptor binding; SH2 domain binding; kinase activity; ATP binding; hormone receptor binding; receptor binding Biological Process: oogenesis; regulation of estrogen receptor signaling pathway; progesterone receptor signaling pathway; central nervous system development; positive regulation of cyclin-dependent protein kinase activity; estrogen receptor signaling pathway; viral reproduction; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; regulation of cell cycle; positive regulation of transcription, DNA-dependent; uterus development; negative regulation of mitochondrial depolarization; negative regulation of protein homooligomerization; positive regulation of MAP kinase activity; cell-cell adhesion; transforming growth factor beta receptor signaling pathway; cell adhesion; response to electrical stimulus; bone resorption; response to drug; platelet activation; fibroblast growth factor receptor signaling pathway; activation of protein kinase B; response to virus; transcytosis; positive regulation of integrin activation; positive regulation of protein amino acid autophosphorylation; cellular response to insulin stimulus; response to mechanical stimulus; T cell costimulation; regulation of vascular permeability; negative regulation of transcription, DNA-dependent; leukocyte migration; negative regulation of apoptosis; axon guidance; peptidyl-tyrosine phosphorylation; protein amino acid autophosphorylation; platelet-derived growth factor receptor signaling pathway; negative regulation of caspase activity; signal transduction; positive regulation of smooth muscle cell migration; regulation of cell-cell adhesion; forebrain development; ephrin receptor signaling pathway; epidermal growth factor receptor signaling pathway; integrin-mediated signaling pathway; response to nutrient levels; regulation of bone resorption; negative regulation of focal adhesion formation; signal complex assembly; positive regulation of phosphoinositide 3-kinase activity; response to mineralocorticoid stimulus; cell cycle; regulation of cell proliferation; cell proliferation; positive regulation of protein kinase B signaling cascade; peptidyl-serine phosphorylation; response to hydrogen peroxide; regulation of protein binding; Ras protein signal transduction; stress fiber formation; innate immune response; response to acidity; positive regulation of insulin receptor signaling pathway; vascular endothelial growth factor receptor signaling pathway; blood coagulation; positive regulation of cytokine secretion
Research Articles on SRC	**1.** Data indicate that myelin protein zero-like 1 (PZR) may promote the invasion and migration of colorectal cancer (CRC) cells through increasing the phosphorylation of focal adhesion kinase (FAK) and protooncogene SRC (Src).
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