Phospho Protein Kinase C (P-PKC) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	Phospho Protein Kinase C (P-PKC), ELISA Kit
Full Product Name	Monkey Phospho Protein Kinase C ELISA Kit
Product Gene Name	P-PKC elisa kit
Species Reactivity	Monkey
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	59,835 Da
OMIM	190090
3D Structure	ModBase 3D Structure for P12931
Related Product Information for P-PKC elisa kit	MBS023264 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Phospho Protein Kinase C (P-PKC) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing P-PKC. The ELISA analytical biochemical technique of the MBS023264 kit is based on P-PKC antibody-P-PKC antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect P-PKC antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, P-PKC. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of P-PKC elisa kit 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.

ADDITIONAL DETAILS

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

NCBI GI #	125711
NCBI GeneID	6714
NCBI Accession #	P12931.3
UniProt Primary Accession #	P12931
UniProt Secondary Accession #	Q76P87; Q86VB9; Q9H5A8; E1P5V4
UniProt Related Accession #	P12931
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; c-SRC; p60-Src
UniProt Protein Name	Proto-oncogene tyrosine-protein kinase Src
UniProt Synonym Protein Names	Proto-oncogene c-Src; pp60c-src
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; proto-oncogene c-Src; tyrosine kinase pp60c-src; tyrosine-protein kinase SRC-1; protooncogene SRC, Rous sarcoma; v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog
NCBI Summary for P-PKC	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 P-PKC	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: Kinase, protein; Protein kinase, TK; EC 2.7.10.2; Protein kinase, tyrosine (non-receptor); Oncoprotein; 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; cytoplasm; mitochondrial inner membrane; late endosome; 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; protein kinase C binding; SH3/SH2 adaptor activity; protein-tyrosine kinase activity; heme binding; estrogen receptor binding; SH2 domain binding; kinase activity; ATP binding; receptor binding; hormone receptor binding Biological Process: oogenesis; regulation of estrogen receptor signaling pathway; positive regulation of cyclin-dependent protein kinase activity; progesterone receptor signaling pathway; central nervous system development; 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; response to virus; activation of protein kinase B; 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; integrin-mediated signaling pathway; epidermal growth factor receptor signaling pathway; response to nutrient levels; regulation of bone resorption; negative regulation of focal adhesion formation; positive regulation of phosphoinositide 3-kinase activity; signal complex assembly; 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 P-PKC	**1.** Data indicate that inhibition of Src activity induces persistent activation of ataxia telangiectasia mutated (ATM)- and Rad3-related (ATR) and check point kinase 1 (Chk1).
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