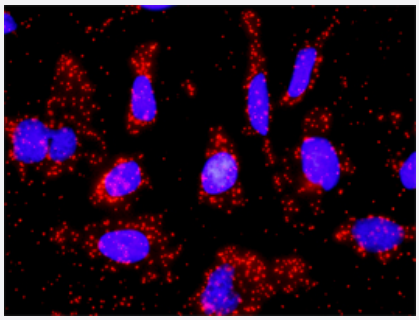
PIK3R1 & SRC Protein Protein Interaction Antibody Pair

Catalog # DI0546 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PIK3R1 and SRC. HeLa cells were stained with anti-PIK3R1 rabbit purified polyclonal antibody 1:1200 and anti-SRC mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description	This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the PIK3R1 protein, and the other against the SRC protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.
Reactivity	Human
Quality Control Testing	Protein protein interaction immunofluorescence result. Representative image of Proximity Ligation Assay of protein-protein interactions between PIK3R1 and SRC. HeLa cells were stained with anti-PIK3R1 rabbit purified polyclonal antibody 1:1200 and anti-SRC mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.
Supplied Products	Antibody pair set content: 1. PIK3R1 rabbit purified polyclonal antibody (100 ug) 2. SRC mouse monoclonal antibody (40 ug) *Reagents are sufficient for at least 30-50 assays using recommended protocols.
Storage Instruction	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

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- *In situ* Proximity Ligation Assay (Cell)

Gene Info — PIK3R1

Entrez GeneID	5295
Gene Name	PIK3R1
Gene Alias	GRB1, p85, p85-ALPHA
Gene Description	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
Omim ID	171833
Gene Ontology	Hyperlink
Gene Summary	Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prim e position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85 , 55, or 50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase pla ys an important role in the metabolic actions of insulin, and a mutation in this gene has been asso ciated with insulin resistance. Alternative splicing of this gene results in three transcript variants en coding different isoforms. [provided by RefSeq
Other Designations	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)|phosphatidylinositol 3 -kinase, regulatory, 1|phosphatidylinositol 3-kinase-associated p-85 alpha|phosphoinositide-3-kin ase, regulatory subunit 1 (p85 alpha)|phosphoinositide-3-ki

Gene Info — SRC

Entrez GeneID	6714
Gene Name	SRC
Gene Alias	ASV, SRC1, c-SRC, p60-Src
Gene Description	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)
Omim ID	190090
Gene Ontology	Hyperlink
Gene Summary	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 ge ne is a tyrosine-protein kinase whose activity can be inhibited by phosphorylation by c-SRC kinas e. Mutations in this gene could be involved in the malignant progression of colon cancer. Two tran script variants encoding the same protein have been found for this gene. [provided by RefSeq

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Other Designations	OTTHUMP00000174476|OTTHUMP00000174477|proto-oncogene tyrosine-protein kinase SRC|protooncogene SRC, Rous sarcoma|tyrosine kinase pp60c-src|tyrosine-protein kinase SRC-1

Pathway

- Acute myeloid leukemia
- Adherens junction
- Apoptosis
- B cell receptor signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Endocytosis
- Endometrial cancer
- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- Gap junction
- Glioma
- GnRH signaling pathway
- Insulin signaling pathway
- Jak-STAT signaling pathway
- Leukocyte transendothelial migration

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- Melanoma
- mTOR signaling pathway
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Phosphatidylinositol signaling system
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- Small cell lung cancer
- T cell receptor signaling pathway
- Tight junction
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- VEGF signaling pathway
- VEGF signaling pathway

Disease

- Alzheimer disease
- Body Weight
- Cardiovascular Diseases
- Colon cancer
- Colonic Neoplasms
- Diabetes Mellitus

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- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glucose Intolerance
- HIV Infections
- HIV Infections
- Hypercholesterolemia
- Hypertension
- Insulin Resistance
- Kidney Failure
- Neoplasms
- Obesity
- Pancreatic cancer
- Pancreatic Neoplasms
- Periodontitis
- Polycystic Ovary Syndrome
- Prostatic Neoplasms
- Thyroid Neoplasms
- Tobacco Use Disorder

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