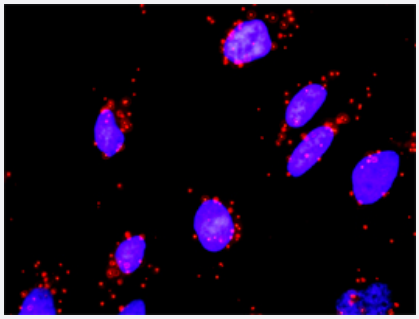
CRK & PIK3R1 Protein Protein Interaction Antibody Pair

Catalog # DI0444 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CRK and PIK3R1. HeLa cells were stained with anti-CRK rabbit purified polyclonal antibody 1:1200 and anti-PIK3R1 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 CRK protein, and the other against the PIK3R1 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 CRK and PIK3R1. HeLa cells were stained with anti-CRK rabbit purified polyclonal antibody 1:1200 and anti-PIK3R1 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. CRK rabbit purified polyclonal antibody (100 ug) 2. PIK3R1 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 — CRK

Entrez GeneID	1398
Gene Name	CRK
Gene Alias	CRKII
Gene Description	v-crk sarcoma virus CT10 oncogene homolog (avian)
Omim ID	164762
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of an adapter protein family that binds to several tyrosine-phosphorylated proteins. The product of this gene has several SH2 and SH3 domains (src-homology domains) and is involved in several signaling pathways, recruiting cytoplasmic proteins in the vicinity of tyrosine kinase through SH2-phosphotyrosine interaction. The N-terminal SH2 domain of this protein functions as a positive regulator of transformation whereas the C-terminal SH3 domain functions as a negative regulator of transformation. Two alternative transcripts encoding different isoforms with distinct biological activity have been described. [provided by RefSeq
Other Designations	avian sarcoma virus CT10 (v-crk) oncogene homolog|v-crk avian sarcoma virus CT10 oncogene homolog|v-crk sarcoma virus CT10 oncogene homolog

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

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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

Pathway

- Acute myeloid leukemia
- Apoptosis
- B cell receptor signaling pathway
- Chemokine signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- Glioma
- Insulin signaling pathway

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

Disease

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- Alzheimer disease
- Body Weight
- Cardiovascular Diseases
- Colon cancer
- Colonic Neoplasms
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Glucose Intolerance
- HIV Infections
- Hypercholesterolemia
- Hypertension
- Insulin Resistance
- Kidney Failure
- Neoplasms
- Obesity
- Pancreatic cancer
- Pancreatic Neoplasms
- Periodontitis
- Polycystic Ovary Syndrome
- Prostatic Neoplasms
- Tobacco Use Disorder

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