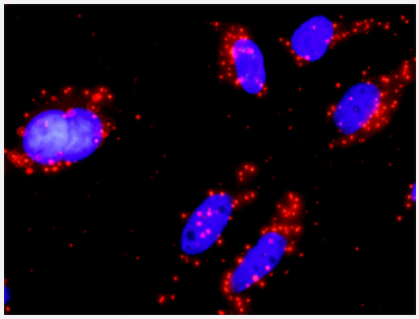
PIK3R1 & PIK3CB Protein Protein Interaction Antibody Pair

Catalog # DI0539 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PIK3R1 and PIK3CB. HeLa cells were stained with anti-PIK3R1 rabbit purified polyclonal antibody 1:1200 and anti-PIK3CB 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 PIK3CB 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 PIK3CB. HeLa cells were stained with anti-PIK3R1 rabbit purified polyclonal antibody 1:1200 and anti-PIK3CB 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. PIK3CB 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 — PIK3CB

Entrez GeneID	5291
Gene Name	PIK3CB
Gene Alias	DKFZp779K1237, MGC133043, PI3K, PI3KCB, PI3Kbeta, PIK3C1, p110-BETA
Gene Description	phosphoinositide-3-kinase, catalytic, beta polypeptide
Omim ID	602925
Gene Ontology	Hyperlink
Gene Summary	Phosphoinositide 3-kinases (PI3Ks) phosphorylate the 3-prime OH position of the inositol ring of i nositol lipids. They have been implicated as participants in signaling pathways regulating cell gro wth by virtue of their activation in response to various mitogenic stimuli. PI3Ks are composed of a 110-kD catalytic subunit, such as PIK3CB, and an 85-kD adaptor subunit (Hu et al., 1993 [PubMe d 8246984]).[supplied by OMIM
Other Designations	PI3-kinase p110 subunit beta|PtdIns-3-kinase p110|phosphatidylinositol 3-kinase, catalytic, beta polypeptide

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
- Acute myeloid leukemia
- Apoptosis
- Apoptosis
- B cell receptor signaling pathway
- B cell receptor signaling pathway
- Chemokine signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Chronic myeloid leukemia
- Colorectal cancer
- Colorectal cancer
- Endometrial cancer
- Endometrial cancer
- ErbB signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc epsilon RI signaling pathway

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- Fc gamma R-mediated phagocytosis
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- Glioma
- Glioma
- Inositol phosphate metabolism
- Insulin signaling pathway
- Insulin signaling pathway
- Jak-STAT signaling pathway
- Jak-STAT signaling pathway
- Leukocyte transendothelial migration
- Leukocyte transendothelial migration
- Melanoma
- Melanoma
- mTOR signaling pathway
- mTOR signaling pathway
- Natural killer cell mediated cytotoxicity
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Non-small cell lung cancer
- Pancreatic cancer
- Pancreatic cancer
- Pathways in cancer

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- Pathways in cancer
- Phosphatidylinositol signaling system
- Phosphatidylinositol signaling system
- Prostate cancer
- Prostate cancer
- Regulation of actin cytoskeleton
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- Renal cell carcinoma
- Small cell lung cancer
- Small cell lung cancer
- T cell receptor signaling pathway
- T cell receptor signaling pathway
- Toll-like receptor signaling pathway
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- Type II diabetes mellitus
- VEGF signaling pathway
- VEGF signaling pathway

Disease

- Adenocarcinoma
- Alzheimer disease
- Barrett Esophagus
- Body Weight
- Breast cancer

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- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Colon cancer
- Colonic Neoplasms
- Diabetes Mellitus
- Diabetes Mellitus
- Drug Toxicity
- Drug Toxicity
- Edema
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glucose Intolerance
- Glucose Intolerance
- Hepatitis C
- HIV Infections
- HIV Infections
- Hypercholesterolemia
- Hypercholesterolemia
- Hypertension
- Insulin Resistance
- Insulin Resistance
- Kidney Failure

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- Neoplasms
- Obesity
- Obesity
- Pancreatic cancer
- Pancreatic Neoplasms
- Periodontitis
- Polycystic Ovary Syndrome
- Prostatic Neoplasms
- Psychiatric Status Rating Scales
- Schizophrenia
- Tobacco Use Disorder

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