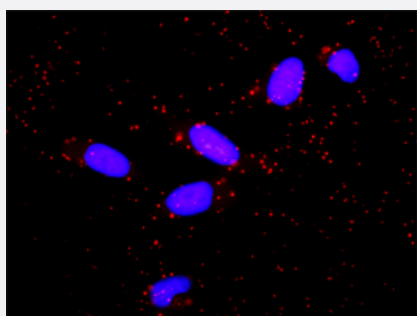


PIK3R5 & PIK3CG Protein Protein Interaction Antibody Pair

Catalog # DI0570

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PIK3R5 and PIK3CG. HeLa cells were stained with anti-PIK3R5 rabbit purified polyclonal antibody 1:1200 and anti-PIK3CG 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 PIK3R5 protein, and the other against the PIK3CG 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 PIK3R5 and PIK3CG. HeLa cells were stained with anti-PIK3R5 rabbit purified polyclonal antibody 1:1200 and anti-PIK3CG 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 Product

Antibody pair set content:
 1. PIK3R5 rabbit purified polyclonal antibody (100 ug)
 2. PIK3CG 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

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — PIK3CG

Entrez GeneID	5294
Gene Name	PIK3CG
Gene Alias	PI3CG, PI3K, PI3Kgamma, PIK3
Gene Description	phosphoinositide-3-kinase, catalytic, gamma polypeptide
Omim ID	601232
Gene Ontology	Hyperlink
Gene Summary	<p>This gene encodes a protein that belongs to the pi3/pi4-kinase family of proteins. The gene product is an enzyme that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. It is an important modulator of extracellular signals, including those elicited by E-cadherin-mediated cell-cell adhesion, which plays an important role in maintenance of the structural and functional integrity of epithelia. In addition to its role in promoting assembly of adherens junctions, the protein is thought to play a pivotal role in the regulation of cytotoxicity in NK cells. The gene is located in a commonly deleted segment of chromosome 7 previously identified in myeloid leukemias. [provided by RefSeq]</p>
Other Designations	1-phosphatidylinositol 3-kinase PI3-kinase PTDINS-3-kinase p110-gamma phosphatidylinositol 3 kinase gamma, p110 gamma phosphatidylinositol 3-kinase catalytic 110-kD gamma phosphatidylinositol 3-kinase, catalytic, gamma polypeptide phosphoinositide-3-kinas

Gene Info — PIK3R5

Entrez GeneID	23533
Gene Name	PIK3R5
Gene Alias	F730038I15Rik, FOAP-2, P101-PI3K, p101
Gene Description	phosphoinositide-3-kinase, regulatory subunit 5
Omim ID	611317
Gene Ontology	Hyperlink

Gene Summary

Receptor-regulated class I phosphoinositide 3-kinases (PI3Ks) phosphorylate the membrane lipid phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P₂) to PtdIns(3,4,5)P₃, which in turn recruits and activates cytosolic effectors involved in proliferation, survival, or chemotaxis. PIK3R5 is a PI3K regulatory subunit (Brock et al., 2003 [PubMed 12507995]).[supplied by OMIM]

Other Designations

phosphoinositide-3-kinase, regulatory subunit 5, p101|phosphoinositide-3-kinase, regulatory subunit, polypeptide p101

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](#)
- [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](#)
- [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](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)

- [Hepatitis C](#)
- [HIV Infections](#)
- [HIV Infections](#)
- [Hypercholesterolemia](#)
- [Insulin Resistance](#)
- [Mental Disorders](#)
- [NARP](#)
- [Obesity](#)
- [Tobacco Use Disorder](#)