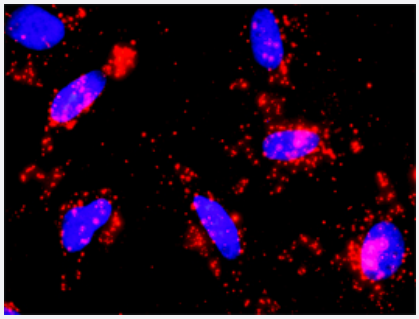
PIK3R1 & CTNNB1 Protein Protein Interaction Antibody Pair

Catalog # DI0541 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PIK3R1 and CTNNB1. HeLa cells were stained with anti-PIK3R1 rabbit purified polyclonal antibody 1:1200 and anti-CTNNB1 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 CTNNB1 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 CTNNB1. HeLa cells were stained with anti-PIK3R1 rabbit purified polyclonal antibody 1:1200 and anti-CTNNB1 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. CTNNB1 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 — CTNNB1

Entrez GeneID	1499
Gene Name	CTNNB1
Gene Alias	CTNNB, DKFZp686D02253, FLJ25606, FLJ37923
Gene Description	catenin (cadherin-associated protein), beta 1, 88kDa
Omim ID	114550 116806 132600 155255
Gene Ontology	Hyperlink
Gene Summary	Beta-catenin is an adherens junction protein. Adherens junctions (AJs; also called the zonula adherens) are critical for the establishment and maintenance of epithelial layers, such as those lining organ surfaces. AJs mediate adhesion between cells, communicate a signal that neighboring cells are present, and anchor the actin cytoskeleton. In serving these roles, AJs regulate normal cell growth and behavior. At several stages of embryogenesis, wound healing, and tumor cell metastasis, cells form and leave epithelia. This process, which involves the disruption and reestablishment of epithelial cell-cell contacts, may be regulated by the disassembly and assembly of AJs. AJs may also function in the transmission of the 'contact inhibition' signal, which instructs cells to stop dividing once an epithelial sheet is complete.[supplied by OMIM
Other Designations	OTTHUMP00000165222|OTTHUMP00000165223|catenin (cadherin-associated protein), beta 1 (88kD)|catenin beta-1

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
- Adherens junction
- Apoptosis
- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- B cell receptor signaling pathway
- Basal cell carcinoma
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Colorectal cancer
- Endometrial cancer
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- Glioma

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

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- Wnt signaling pathway

Disease

- Adenoma
- Adrenal Cortex Neoplasms
- Alzheimer disease
- Alzheimer disease
- Birth Weight
- Body Weight
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Cell Transformation
- Chromosome Aberrations
- Chromosome Deletion
- Cleft Lip
- Cleft Palate
- Cognition
- Colon cancer
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Diabetes Mellitus
- Diabetes Mellitus

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- Drug Toxicity
- Edema
- Edema
- Endometrial Neoplasms
- Ependymoma
- Esophageal Neoplasms
- Fibroma
- Fibromatosis
- Fractures
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Glucose Intolerance
- Head and Neck Neoplasms
- HIV Infections
- Hypercholesterolemia
- Hypertension
- Insulin Resistance
- Kidney Failure
- Kidney Failure
- Kidney Neoplasms
- Laryngeal Neoplasms
- Leukemia
- Liver Neoplasms
- Lung Neoplasms

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- Meningeal Neoplasms
- Meningioma
- Microsatellite Instability
- Mouth Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Neoplasms
- Obesity
- Obesity
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatic Neoplasms
- Periodontitis
- Pharyngeal Neoplasms
- Polycystic Ovary Syndrome
- Prostatic Neoplasms
- Prostatic Neoplasms
- Pulmonary Disease
- Recurrence
- Spinal Fractures
- Stomach Neoplasms
- Tobacco Use Disorder

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- Urinary Bladder Neoplasms
- Werner syndrome
- Wilms Tumor

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