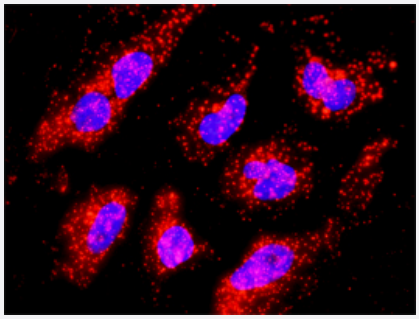
CDK6 & CTNNB1 Protein Protein Interaction Antibody Pair

Catalog # DI0410 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CDK6 and CTNNB1. HeLa cells were stained with anti-CDK6 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 CDK6 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 CDK6 and CTNNB1. HeLa cells were stained with anti-CDK6 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. CDK6 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 — CDK6

Entrez GeneID	1021
Gene Name	CDK6
Gene Alias	MGC59692, PLSTIRE, STQTL11
Gene Description	cyclin-dependent kinase 6
Omim ID	603368
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of Saccharomyces cerevisiae cdc28, and Schizosaccharomyces pombe cdc2, and are known to be important regulators of cell cycle progression. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of this kinase first appears in mid-G1 phase, which is controlled by the regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. This kinase, as well as CDK4, has been shown to phosphorylate , and thus regulate the activity of, tumor suppressor protein Rb. [provided by RefSeq
Other Designations	cell division protein kinase 6

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

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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

Pathway

- Adherens junction
- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Basal cell carcinoma
- Cell cycle
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- Focal adhesion
- Glioma
- Leukocyte transendothelial migration
- Melanogenesis
- Melanoma
- Non-small cell lung cancer
- p53 signaling pathway
- Pancreatic cancer
- Pathogenic Escherichia coli infection - EHEC
- Pathways in cancer

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- Pathways in cancer
- Prostate cancer
- Small cell lung cancer
- Thyroid cancer
- Tight junction
- Wnt signaling pathway

Disease

- Adenocarcinoma
- Adenoma
- Adrenal Cortex Neoplasms
- Alzheimer disease
- Arthritis
- Autoimmune Diseases
- Birth Weight
- Breast cancer
- Breast cancer
- Breast Neoplasms
- Breast Neoplasms
- Carcinoma
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Cell Transformation
- Chromosome Aberrations
- Chromosome Deletion

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- Cleft Lip
- Cleft Palate
- Cognition
- Colon cancer
- Colorectal Neoplasms
- Crohn Disease
- Diabetes Mellitus
- Diabetes Mellitus
- Disease Progression
- Edema
- Edema
- Endometrial Neoplasms
- Ependymoma
- Esophageal Neoplasms
- Esophageal Neoplasms
- Fibroma
- Fibromatosis
- Fractures
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Growth Disorders
- Head and Neck Neoplasms
- Head and Neck Neoplasms
- Inflammation

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- Kidney Failure
- Kidney Failure
- Kidney Neoplasms
- Laryngeal Neoplasms
- Leukemia
- Liver Neoplasms
- Lung Neoplasms
- Meningeal Neoplasms
- Meningioma
- Microsatellite Instability
- Mouth Neoplasms
- Mouth Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Neoplasms
- Obesity
- Osteoporosis
- Ovarian cancer
- Ovarian cancer
- Ovarian Neoplasms
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Pharyngeal Neoplasms
- Precancerous Conditions
- Prostatic Neoplasms

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- Pulmonary Disease
- Recurrence
- Recurrence
- Spinal Fractures
- Stomach Neoplasms
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Urinary Bladder Neoplasms
- Wegener Granulomatosis
- Werner syndrome
- Wilms Tumor

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