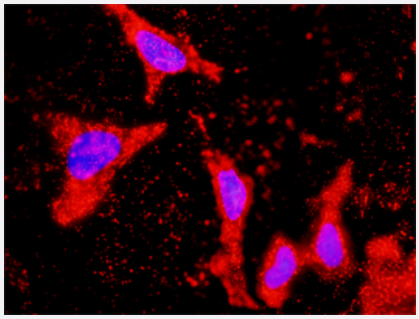
CCNE1 & CDKN1B Protein Protein Interaction Antibody Pair

Catalog # DI0270 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CCNE1 and CDKN1B. HeLa cells were stained with anti-CCNE1 rabbit purified polyclonal antibody 1:1200 and anti-CDKN1B 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 CCNE1 protein, and the other against the CDKN1B 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 CCNE1 and CDKN1B. HeLa cells were stained with anti-CCNE1 rabbit purified polyclonal antibody 1:1200 and anti-CDKN1B 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. CCNE1 rabbit purified polyclonal antibody (100 ug) 2. CDKN1B 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 — CCNE1

Entrez GeneID	898
Gene Name	CCNE1
Gene Alias	CCNE
Gene Description	cyclin E1
Omim ID	123837
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins fu nction as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a co mplex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. This protein accumulates at the G1-S phase boundary and is degraded as cells p rogress through S phase. Overexpression of this gene has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis. This protein was foun d to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein map ped to the ATM locus), which participates in cell-cycle regulated histone gene expression and pla ys a critical role in promoting cell-cycle progression in the absence of pRB. Two alternatively splic ed transcript variants of this gene, which encode distinct isoforms, have been described. Two add itional splice variants were reported but detailed nucleotide sequence information is not yet availa ble. [provided by RefSeq
Other Designations	cyclin Es|cyclin Et

Gene Info — CDKN1B

Entrez GeneID	1027
Gene Name	CDKN1B
Gene Alias	CDKN4, KIP1, MEN1B, MEN4, P27KIP1
Gene Description	cyclin-dependent kinase inhibitor 1B (p27, Kip1)
Omim ID	600778 610755

Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. [provided by RefSeq
Other Designations	cyclin-dependent kinase inhibitor 1B

Pathway

- Cell cycle
- Cell cycle
- Chronic myeloid leukemia
- ErbB signaling pathway
- p53 signaling pathway
- Pathways in cancer
- Pathways in cancer
- Prostate cancer
- Prostate cancer
- Small cell lung cancer
- Small cell lung cancer

Disease

- Acromegaly
- Adenocarcinoma
- Adenocarcinoma
- Alzheimer disease
- Ataxia telangiectasia

- Atherosclerosis
- Breast cancer
- Breast cancer
- Breast Neoplasms
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Chromosome Aberrations
- Cognition
- Colon cancer
- Colorectal Neoplasms
- Coronary Artery Disease
- Coronary Restenosis
- Diabetes Mellitus
- Disease Progression
- Disease Progression
- Edema
- Endometriosis
- Esophageal Neoplasms
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Graft Occlusion
- Head and Neck Neoplasms
- Hyperparathyroidism
- Kidney Failure

- Leukemia
- Liver Neoplasms
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphoma
- Mouth Neoplasms
- Multiple endocrine neoplasia
- Multiple Endocrine Neoplasia Type 1
- Myocardial Infarction
- Neoplasm Invasiveness
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Neoplasms
- Ovarian cancer
- Ovarian cancer
- Ovarian Neoplasms
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Parathyroid Neoplasms
- Precancerous Conditions
- Primary Ovarian Insufficiency
- Prostate cancer
- Prostatic Neoplasms

- Pulmonary Disease
- Stomach Neoplasms
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Urinary Bladder Neoplasms
- Werner syndrome