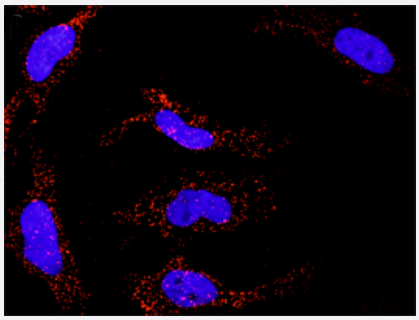
# CDKN1B(phospho S10) & CDKN1B Protein Phosphorylation Antibody Pair

Catalog # DP0085 Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

## Specification

| | |
|---|---|
| **Product Description** | This protein phosphorylation antibody pair set comes with two antibodies, one against the CDKN1B protein, and the other against the specific S10 phosphorylated site of CDKN1B for use in *in situ* Proximity Ligation Assay. See Publication Reference below. |
| **Reactivity** | Human |
| **Quality Control Testing** | Dual recognition immunofluorescence result.<br>Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. 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:<br>1. Phospho-CDKN1B S10 rabbit polyclonal antibody (20 ul)<br>With 0.09% sodium azide.<br>2. CDKN1B mouse monoclonal antibody (40 ug)<br>In 1x PBS, pH 7.2<br>*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. |

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## Applications

- *In situ* Proximity Ligation Assay (Cell)

## 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 CD K inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-C DK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degrad ation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubi quitination by SCF complexes, is required for the cellular transition from quiescence to the prolifer ative state. [provided by RefSeq |
| **Other Designations** | cyclin-dependent kinase inhibitor 1B |

## Pathway

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

## Disease

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

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- Leukemia
- Liver Neoplasms
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphoma
- Mouth Neoplasms
- Multiple endocrine neoplasia
- Multiple Endocrine Neoplasia Type 1
- Myocardial Infarction
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Ovarian cancer
- 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

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- Werner syndrome

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