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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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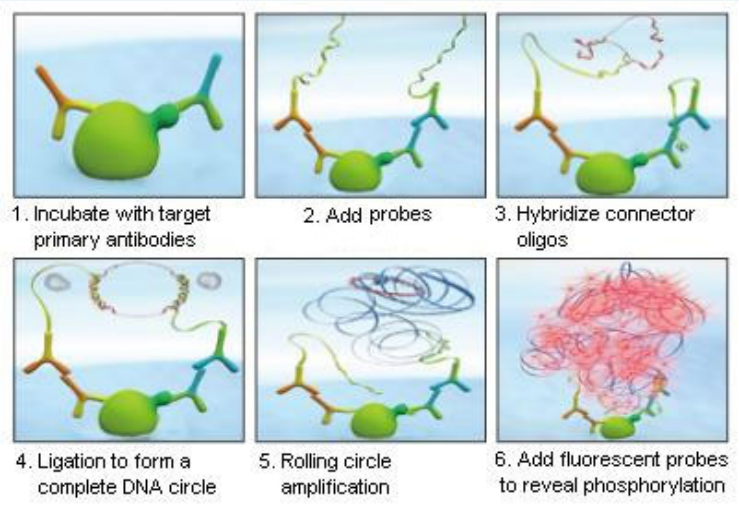
# CDKN1B(phospho T187) & CDKN1B Protein Phosphorylation Antibody Pair

**Catalog # :** DP0086 **規格 :** [ 1 Set ]

List All

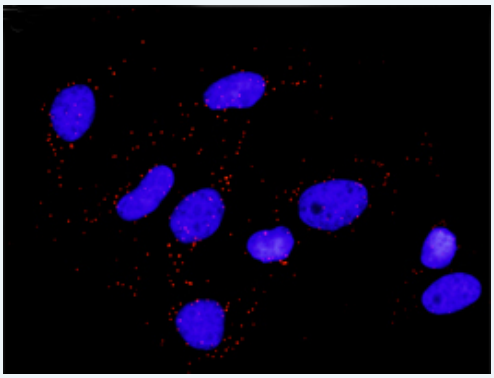
## Specification

**Product Description:** This protein phosphorylation antibody pair set comes with two antibodies, one against the CDKN1B protein, and the other against the specific T187 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.



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 Product:** Antibody pair set content:
1. Phospho-CDKN1B T187 rabbit polyclonal antibody (20 ul)
With 0.09% sodium azide.
2. CDKN1B mouse monoclonal antibody (40 ug)
In 1x PBS, pH 7.2
*Reagents are sufficient for at least 30-50 assays using recommended protocols.

## Application Image

*In situ* Proximity Ligation Assay (Cell)

**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.

## Publication Reference


1. In situ detection of phosphorylated platelet-derived growth factor receptor beta using a generalized proximity ligation method.
   Jarvius M, Paulsson J, Weibrecht I, Leuchowius KJ, Andersson AC, Wahlby C, Gullberg M,Botling J, Sjoblom T, Markova B, Ostman A, Landegren U, Soderberg O.
   Mol Cell Proteomics. 2007 Sep;6(9):1500-9. Epub 2007 Jun 12.
2. Direct observation of individual endogenous protein complexes in situ by proximity ligation.
   Soderberg O, Gullberg M, Jarvius M , Ridderstrale K, Leuchowius KJ, Jarvius J, Wester K, Hydbring P, Bahram F, Larsson LG, and Landegren U.
   Nat Methods. 2006 Dec;3(12):995-1000. Epub 2006 Oct 29.
3. Cytokine detection by antibody-based proximity ligation.
   Gullberg M, Gustafsdottir SM, Schallmeiner E, Jarvius J, Bjarnegard M, Betsholtz C, Landegren U, and Fredriksson S.
   Proc Natl Acad Sci U S A. 2004 Jun 1;101(22):8420-4. Epub 2004 May 21.
4. Protein detection using proximity-dependent DNA ligation assays.
   Fredriksson S, GullbergM, Jarvius J, Olsson C, Pietras K, Gustafsdottir SM, Ostman A, and Landegren U.
   Nat Biotechnol. 2002 May;20(5):473-7.
5. Highly specific detection of phosphorylated proteins by Duolink
   Mats Gullberg and Ann-Catrin Andersson
   Nature Methods 6. 2009


## Applications

***In situ* Proximity Ligation Assay (Cell)**

## Gene Information

**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

## Gene Pathway

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

## Related Disease

Acromegaly Adenocarcinoma Adenocarcinoma, Follicular Alzheimer Disease
Alzheimer disease Ataxia telangiectasia Atherosclerosis Breast cancer Breast Neoplasms
Carcinoma Carcinoma, Ductal, Breast Carcinoma, Hepatocellular
Carcinoma, Papillary, Follicular Carcinoma, Squamous Cell Cardiovascular Diseases
Chromosome Aberrations Cognition Colon cancer Colorectal Neoplasms

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