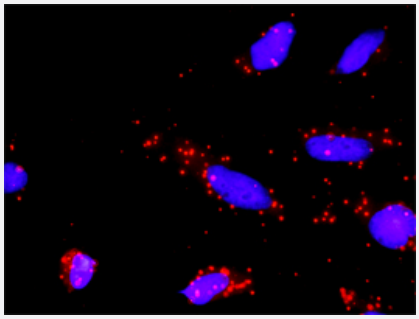
# PIAS2 & CDKN2B Protein Protein Interaction Antibody Pair

Catalog # DI0095 Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PIAS2 and CDKN2B. HeLa cells were stained with anti-PIAS2 rabbit purified polyclonal antibody 1:1200 and anti-CDKN2B 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 PIAS2 protein, and the other against the CDKN2B protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below. |
| **Reactivity** | Human |
| **Quality Control Testing** | Protein protein interaction immunofluorescence result.<br>Representative image of Proximity Ligation Assay of protein-protein interactions between PIAS2 and CDKN2B. HeLa cells were stained with anti-PIAS2 rabbit purified polyclonal antibody 1:1200 and anti-CDKN2B 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:<br>1. PIAS2 rabbit purified polyclonal antibody (100 ug)<br>2. CDKN2B mouse monoclonal antibody (40 ug)<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. |

## Applications

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- *In situ* Proximity Ligation Assay (Cell)

## Gene Info — CDKN2B

| | |
|---|---|
| **Entrez GeneID** | 1030 |
| **Gene Name** | CDKN2B |
| **Gene Alias** | CDK4I, INK4B, MTS2, P15, TP15, p15INK4b |
| **Gene Description** | cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) |
| **Omim ID** | 600431 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene lies adjacent to the tumor suppressor gene CDKN2A in a region that is frequently mutated and deleted in a wide variety of tumors. This gene encodes a cyclin-dependent kinase inhibitor, which forms a complex with CDK4 or CDK6, and prevents the activation of the CDK kinases, thus the encoded protein functions as a cell growth regulator that controls cell cycle G1 progression. The expression of this gene was found to be dramatically induced by TGF beta, which suggested its role in the TGF beta induced growth inhibition. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. [provided by RefSeq |
| **Other Designations** | CDK inhibitory protein\|CDK4B inhibitor\|OTTHUMP00000021154\|OTTHUMP00000021155\|cyclin-dependent kinase 4 inhibitor B\|cyclin-dependent kinase inhibitor 2B\|cyclin-dependent kinases 4 and 6 binding protein\|multiple tumor suppressor 2\|p14_CDK inhibitor\|p14_INK4 |

## Gene Info — PIAS2

| | |
|---|---|
| **Entrez GeneID** | 9063 |
| **Gene Name** | PIAS2 |
| **Gene Alias** | MGC102682, MIZ1, PIASX, PIASX-ALPHA, PIASX-BETA, SIZ2, ZMIZ4, miz |
| **Gene Description** | protein inhibitor of activated STAT, 2 |
| **Omim ID** | 603567 |
| **Gene Ontology** | Hyperlink |

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|---|---|
| **Gene Summary** | This gene encodes a protein involved in the regulation of transcription factors involved in MAP kin ase signaling. The symbol MIZ1 has also been associated with ZBTB17 which is a different gene l ocated on chromosome 1. Two alternatively spliced transcripts encoding different isoforms have been described. [provided by RefSeq |
| **Other Designations** | Msx-interacting-zinc finger\|protein inhibitor of activated STAT X\|zinc finger, MIZ-type containing 4 |

## Pathway

- Cell cycle
- Jak-STAT signaling pathway
- Pathways in cancer
- Pathways in cancer
- Small cell lung cancer
- Small cell lung cancer
- TGF-beta signaling pathway
- Ubiquitin mediated proteolysis

## Disease

- Adenocarcinoma
- Arthritis
- Asthma
- Ataxia telangiectasia
- Atherosclerosis
- Bipolar Disorder
- Birth Weight
- Brain Ischemia
- Brain Neoplasms
- Breast cancer

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- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Chromosomal Instability
- Chromosome Aberrations
- Colorectal Neoplasms
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Cystadenocarcinoma
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Eczema
- Edema
- Esophageal Neoplasms
- Fetal Diseases
- Genetic Predisposition to Disease
- Glioma
- Glucose Intolerance
- Glucose Metabolism Disorders
- Hemorrhage
- HIV Infections
- Hyperglycemia
- Hyperlipidemias

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- Hyperlipoproteinemia Type II
- Hypersensitivity
- Hypertension
- Insulin Resistance
- Intracranial Aneurysm
- Kidney Failure
- Leukemia
- Lymphoma
- Malignant melanoma
- Malnutrition
- Melanoma
- Multiple endocrine neoplasia
- Multiple Endocrine Neoplasia Type 1
- Myelodysplastic Syndromes
- Myocardial Infarction
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Obesity
- Ovarian cancer
- Ovarian Neoplasms
- Periodontitis
- Prostatic Neoplasms
- Rhinitis
- Skin Neoplasms
- Starvation
- Stroke

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- Thyroid Neoplasms
- Uveal Neoplasms
- Vascular Diseases
- Weight Gain
- Wolfram Syndrome

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