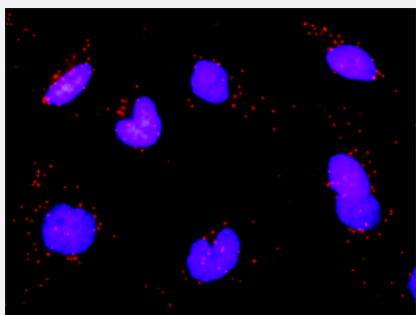


# PPM1B & CHUK Protein Protein Interaction Antibody Pair

Catalog # DI0101

Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PPM1B and CHUK. HeLa cells were stained with anti-PPM1B rabbit purified polyclonal antibody 1:1200 and anti-CHUK 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 PPM1B protein, and the other against the CHUK 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 PPM1B and CHUK. HeLa cells were stained with anti-PPM1B rabbit purified polyclonal antibody 1:1200 and anti-CHUK 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. PPM1B rabbit purified polyclonal antibody (100 ug)  
2. CHUK 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 — CHUK

|                    |                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">1147</a>                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Name          | CHUK                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Alias         | IKBKA, IKK-alpha, IKK1, IKKA, NFKB1KA, TCF16                                                                                                                                                                                                                                                                                                                                                           |
| Gene Description   | conserved helix-loop-helix ubiquitous kinase                                                                                                                                                                                                                                                                                                                                                           |
| Omim ID            | <a href="#">600664</a>                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Summary       | This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, phosphorylates sites that trigger the degradation of the inhibitor via the ubiquitination pathway, thereby activating the transcription factor. [provided by RefSeq] |
| Other Designations | I-kappa-B kinase 1 I-kappa-B kinase-alpha IKK-a kinase I-kB kinase alpha subunit Nuclear factor NFkappaB inhibitor kinase alpha OTTHUMP00000020273 conserved helix-loop ubiquitous kinase                                                                                                                                                                                                              |

## Gene Info — PPM1B

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID    | <a href="#">5495</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Name        | PPM1B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Alias       | MGC21657, PP2C-beta-X, PP2CB, PP2CBETA, PPC2BETAX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Description | protein phosphatase 1B (formerly 2C), magnesium-dependent, beta isoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Omim ID          | <a href="#">603770</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Ontology    | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Summary     | The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase has been shown to dephosphorylate cyclin-dependent kinases (CDKs), and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to cause cell-growth arrest or cell death. Alternative splicing results in multiple transcript variants encoding different isoforms. Additional transcript variants have been described, but currently do not represent full-length sequences. [provided by RefSeq] |

**Other Designations**

OTTHUMP00000158953|OTTHUMP00000158955|protein phosphatase 1B|protein phosphatase 2C beta isoform|protein phosphatase 2C-like protein

## Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [MAPK signaling pathway](#)
- [MAPK signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

## Disease

- [Alzheimer Disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Bronchiolitis](#)

- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Cerebral Hemorrhage](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Fatty Liver](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Hypertension](#)
- [Infant](#)
- [Intracranial Hemorrhages](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Respiratory Syncytial Virus Infections](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)

- [Tobacco Use Disorder](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)