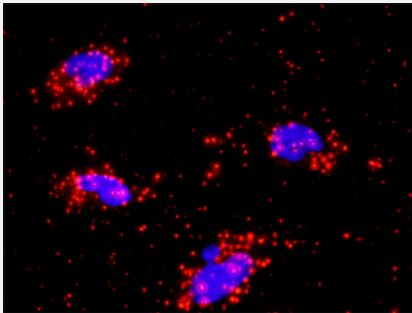


PRKCB & IKBKB Protein Protein Interaction Antibody Pair

Catalog # DI0593

Size 1 Set

Applications



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

Entrez GeneID	3551
Gene Name	IKBKB
Gene Alias	FLJ40509, IKK-beta, IKK2, IKKB, MGC131801, NFKBIKB
Gene Description	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
Omim ID	603258
Gene Ontology	Hyperlink
Gene Summary	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA (MIM 164014), or RELB (MIM 604758) to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008, or NFKBIB, MIM 604495), which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).[supplied by OMIM]
Other Designations	inhibitor of nuclear factor kappa B kinase beta subunit nuclear factor NF-kappa-B inhibitor kinase beta

Gene Info — PRKCB

Entrez GeneID	5579
Gene Name	PRKCB
Gene Alias	MGC41878, PKC-beta, PKCB, PRKCB1, PRKCB2
Gene Description	protein kinase C, beta
Omim ID	176970
Gene Ontology	Hyperlink

Gene Summary

Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This protein kinase has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. Studies in mice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations

protein kinase C, beta 1 polypeptide

Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [B cell receptor signaling pathway](#)
- [Calcium signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [GnRH signaling pathway](#)

- [Insulin signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [MAPK signaling pathway](#)
- [Melanogenesis](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Phosphatidylinositol signaling system](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Tight junction](#)
- [Toll-like receptor signaling pathway](#)
- [Type II diabetes mellitus](#)
- [Vascular smooth muscle contraction](#)
- [VEGF signaling pathway](#)
- [Vibrio cholerae infection](#)
- [Wnt signaling pathway](#)

- [Albuminuria](#)
- [Arthritis](#)
- [Asthma](#)
- [Autistic Disorder](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Colonic Neoplasms](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Epilepsies](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Lymphoma](#)

- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Proteinuria](#)
- [Rectal Neoplasms](#)
- [Respiratory Syncytial Virus Infections](#)
- [Syndrome](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)