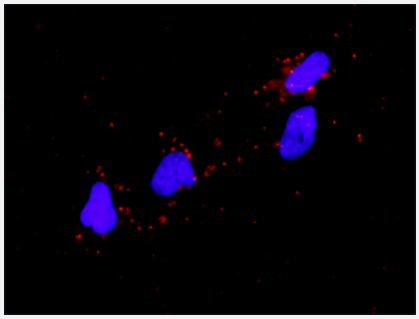
# PRKCB & GSK3B Protein Protein Interaction Antibody Pair

Catalog # DI0582 Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PRKCB and GSK3B. HeLa cells were stained with anti-PRKCB rabbit purified polyclonal antibody 1:1200 and anti-GSK3B 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 GSK3B 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 PRKCB and GSK3B. HeLa cells were stained with anti-PRKCB rabbit purified polyclonal antibody 1:1200 and anti-GSK3B 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. PRKCB rabbit purified polyclonal antibody (100 ug)<br>2. GSK3B 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- *In situ* Proximity Ligation Assay (Cell)

## Gene Info — GSK3B

| | |
|---|---|
| **Entrez GeneID** | 2932 |
| **Gene Name** | GSK3B |
| **Gene Alias** | - |
| **Gene Description** | glycogen synthase kinase 3 beta |
| **Omim ID** | 605004 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene |
| **Other Designations** | GSK3beta isoform\|glycogen synthase kinase-3 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 |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **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

- Axon guidance
- B cell receptor signaling pathway
- B cell receptor signaling pathway
- Basal cell carcinoma
- Calcium signaling pathway
- Cell cycle
- Chemokine signaling pathway
- Chemokine signaling pathway
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- Gap junction

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Glioma
- GnRH signaling pathway
- Hedgehog signaling pathway
- Insulin signaling pathway
- Leukocyte transendothelial migration
- Long-term depression
- Long-term potentiation
- MAPK signaling pathway
- Melanogenesis
- Melanogenesis
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pathways in cancer
- Pathways in cancer
- Phosphatidylinositol signaling system
- Prostate cancer
- T cell receptor signaling pathway
- Tight junction
- Vascular smooth muscle contraction
- VEGF signaling pathway
- Vibrio cholerae infection
- Wnt signaling pathway
- Wnt signaling pathway

## Disease

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Adenocarcinoma
- Albuminuria
- Alzheimer disease
- Amphetamine-Related Disorders
- Anorexia Nervosa
- Autistic Disorder
- Bipolar Disorder
- Bone Diseases
- Breast cancer
- Breast Neoplasms
- Bulimia
- Cardiovascular Diseases
- Cardiovascular Diseases
- Cognition
- Dementia
- Depressive Disorder
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Retinopathy
- Disease Models
- Disease Progression
- Disease Progression
- Drug Toxicity
- Dyskinesia

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Edema
- Edema
- Epilepsies
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Kidney Failure
- Liver Cirrhosis
- Lung Neoplasms
- Mood Disorders
- Movement Disorders
- Multiple Myeloma
- Neoplasm Invasiveness
- Parkinson disease
- Personality Disorders
- Personality Inventory
- Polycystic Ovary Syndrome
- Proteinuria
- Psychiatric Status Rating Scales
- Psychotic Disorders
- Pulmonary Disease
- Recurrence
- Schizophrenia
- Schizophrenic Psychology
- Sleep Deprivation

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Stomach Neoplasms
- Syndrome
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Weight Gain
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.