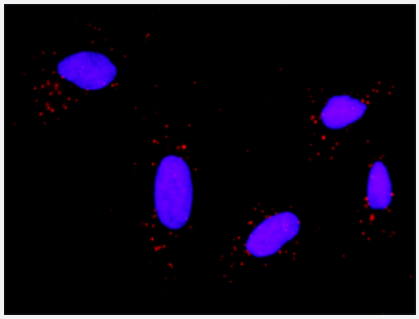
PRKCD & GRM5 Protein Protein Interaction Antibody Pair

Catalog # DI0234 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PRKCD and GRM5. HeLa cells were stained with anti-PRKCD rabbit purified polyclonal antibody 1:1200 and anti-GRM5 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 PRKCD protein, and the other against the GRM5 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 PRKCD and GRM5. HeLa cells were stained with anti-PRKCD rabbit purified polyclonal antibody 1:1200 and anti-GRM5 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. PRKCD rabbit purified polyclonal antibody (100 ug) 2. GRM5 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 — GRM5

Entrez GeneID	2915
Gene Name	GRM5
Gene Alias	GPRC1E, MGLUR5, mGlu5
Gene Description	glutamate receptor, metabotropic 5
Omim ID	604102
Gene Ontology	Hyperlink
Gene Summary	L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been divided into 3 groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group I includes GRM1 and GRM5 and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their agonist selectivities. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	-

Gene Info — PRKCD

Entrez GeneID	5580
Gene Name	PRKCD
Gene Alias	MAY1, MGC49908, PKCD, nPKC-delta
Gene Description	protein kinase C, delta
Omim ID	176977
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 the 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 distinct roles in cells. The protein encoded by this gene is one of the PKC family members. Studies both in human and mice demonstrate that this kinase is involved in B cell signaling and in the regulation of growth, apoptosis, and differentiation of a variety of cell types. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq
Other Designations	protein kinase C delta VIII

Pathway

- Calcium signaling pathway
- Chemokine signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Gap junction
- GnRH signaling pathway
- Long-term depression
- Long-term potentiation
- Neuroactive ligand-receptor interaction
- Neurotrophin signaling pathway
- Tight junction
- Type II diabetes mellitus
- Vascular smooth muscle contraction

Disease

- Alcoholism
- Anorexia Nervosa
- Bulimia

- Cardiovascular Diseases
- Cardiovascular Diseases
- Cognition
- Diabetes Mellitus
- Diabetes Mellitus
- Edema
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Mental Disorders
- Schizophrenia
- Schizophrenic Psychology
- Tobacco Use Disorder
- Tobacco Use Disorder
- Weight Gain