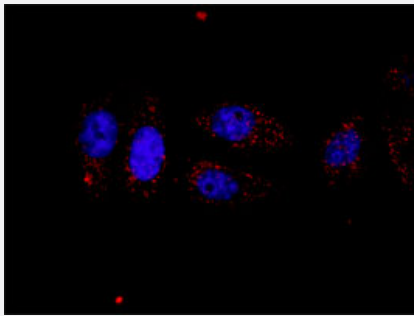


KIT & PLCG1 Protein Protein Interaction Antibody Pair

Catalog # DI0423

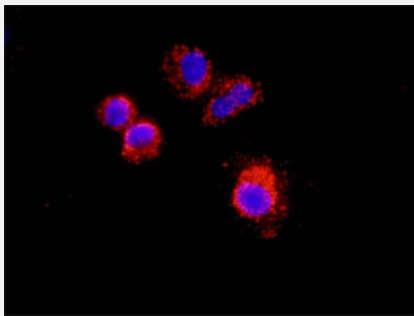
Size 1 Set

Applications



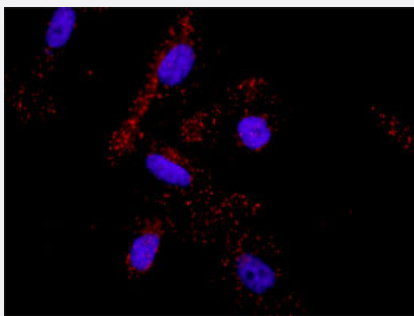
In situ Proximity Ligation Assay (Cell)

Representative image of Proximity Ligation Assay of protein-protein interactions between KIT and PLCG1. HT-29 cells were stained with anti-KIT rabbit purified polyclonal antibody 1:100 and anti-PLCG1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



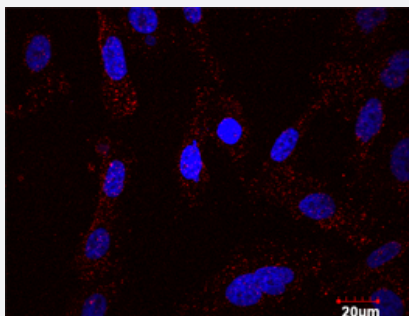
In situ Proximity Ligation Assay (Cell)

Representative image of Proximity Ligation Assay of protein-protein interactions between KIT and PLCG1. A-549 cells were stained with anti-KIT rabbit purified polyclonal antibody 1:100 and anti-PLCG1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



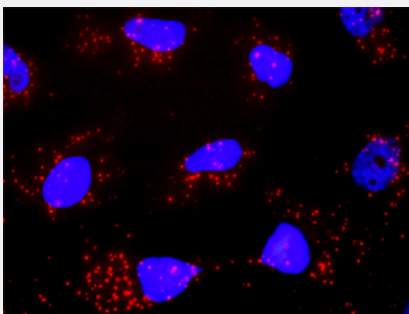
In situ Proximity Ligation Assay (Cell)

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In situ Proximity Ligation Assay (Cell)

Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between KIT and PLCG1. PC-3 cells were stained with anti-KIT rabbit purified polyclonal antibody 1:100 and anti-PLCG1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Representative image of Proximity Ligation Assay of protein-protein interactions between KIT and PLCG1. HeLa cells were stained with anti-KIT rabbit purified polyclonal antibody 1:1200 and anti-PLCG1 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 KIT protein, and the other against the PLCG1 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 KIT and PLCG1. HeLa cells were stained with anti-KIT rabbit purified polyclonal antibody 1:1200 and anti-PLCG1 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. KIT rabbit purified polyclonal antibody (100 ug) 2. PLCG1 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)

Representative image of Proximity Ligation Assay of protein-protein interactions between KIT and PLCG1. HT-29 cells were stained with anti-KIT rabbit purified polyclonal antibody 1:100 and anti-PLCG1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- *In situ* Proximity Ligation Assay (Cell)

Representative image of Proximity Ligation Assay of protein-protein interactions between KIT and PLCG1. A-549 cells were stained with anti-KIT rabbit purified polyclonal antibody 1:100 and anti-PLCG1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- *In situ* Proximity Ligation Assay (Cell)

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- *In situ* Proximity Ligation Assay (Cell)

Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between KIT and PLCG1. PC-3 cells were stained with anti-KIT rabbit purified polyclonal antibody 1:100 and anti-PLCG1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — KIT

Entrez GeneID [3815](#)

Gene Name KIT

Gene Alias C-Kit, CD117, PBT, SCFR

Gene Description v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog

Omim ID [164920](#) [172800](#) [273300](#) [601626](#) [606764](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes the human homolog of the proto-oncogene c-kit. C-kit was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. This protein is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations mast/stem cell growth factor receptor|proto-oncogene tyrosine-protein kinase Kit|soluble KIT variant 1

Gene Info — PLCG1

Entrez GeneID [5335](#)

Gene Name PLCG1

Gene Alias PLC-II, PLC1, PLC148, PLCgamma1

Gene Description phospholipase C, gamma 1

Omim ID [172420](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase activators. For example, when activated by SRC, the encoded protein causes the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations 1-phosphatidyl-D-myo-inositol-4,5-bisphosphate|1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma 1|OTTHUMP00000031787|OTTHUMP00000178982|PLC-gamma-1|inositol trisphosphohydrolase|monophosphatidylinositol phosphodiesterase|phosphatidylinositol

Pathway

- [Acute myeloid leukemia](#)
- [Calcium signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Glioma](#)

- [Hematopoietic cell lineage](#)
- [Inositol phosphate metabolism](#)
- [Leukocyte transendothelial migration](#)
- [Melanogenesis](#)
- [Metabolic pathways](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Phosphatidylinositol signaling system](#)
- [T cell receptor signaling pathway](#)
- [VEGF signaling pathway](#)
- [Vibrio cholerae infection](#)

Disease

- [Acute Disease](#)
- [Aneuploidy](#)
- [Azoospermia](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Constipation](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)

- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Neoplasms](#)
- [HIV Infections](#)
- [Hyperpigmentation](#)
- [Infertility](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Malignant melanoma](#)
- [Mastocytosis](#)
- [Melanoma](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)
- [Neoplasm](#)
- [Neoplasm Recurrence](#)
- [Neoplasm Seeding](#)
- [Oligospermia](#)
- [Osteoporosis](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Skin Neoplasms](#)
- [Splenic Neoplasms](#)
- [Stomach Neoplasms](#)

- [Thyroid Neoplasms](#)
- [Translocation](#)