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FLT1 & PLCG1 Protein Protein Interaction Antibody Pair

Catalog # : DI0018

規格 : [1 Set]

List All

Specification

Product Description: This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the FLT1 protein, and the other against the PLCG1 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

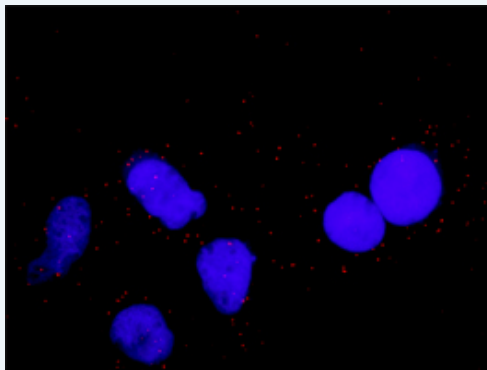
Application Image

In situ Proximity Ligation Assay (Cell)



Reactivity: Human

Quality Control Testing: Protein protein interaction immunofluorescence result.



Representative image of Proximity Ligation Assay of protein-protein interactions between FLT1 and PLCG1. Huh7 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:600 and anti-PLCG1 mouse monoclonal antibody 1:100. 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. FLT1 rabbit purified polyclonal antibody (20 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.

MSDS:  [Download](#)

Publication Reference

1. [An analysis of protein-protein interactions in cross-talk pathways reveals CRKL as a novel prognostic marker in hepatocellular carcinoma.](#)
Liu CH, Chen TC, Chau GY, Jan YH, Chen CH, Hsu CN, Lin KT, Juang YL, Lu PJ, Cheng HC, Chen MH, Chang CF, Ting YS, Kao CY, Hsiao M, Huang CY. Mol Cell Proteomics. 2013 Feb 8. [Epub ahead of print]

Applications

In situ Proximity Ligation Assay (Cell)

[FLT1](#) [PLCG1](#)

Gene Information

Entrez GeneID: [2321](#)

Gene Name: FLT1

Gene Alias: FLT, VEGFR1

Gene Description: fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)

Omim ID: [165070](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia

Other Designations: fms-related tyrosine kinase 1, soluble VEGF receptor 1-14, soluble VEGFR1 variant 2, soluble VEGFR1 variant 21, vascular endothelial growth factor/vascular permeability factor receptor

Gene Information

Entrez GeneID: [5335](#)

Gene Name: PLCG1

Gene Alias: PLC-II, PLC1, PLC148, PLCgamma1

Gene Description: phospholipase C, gamma 1

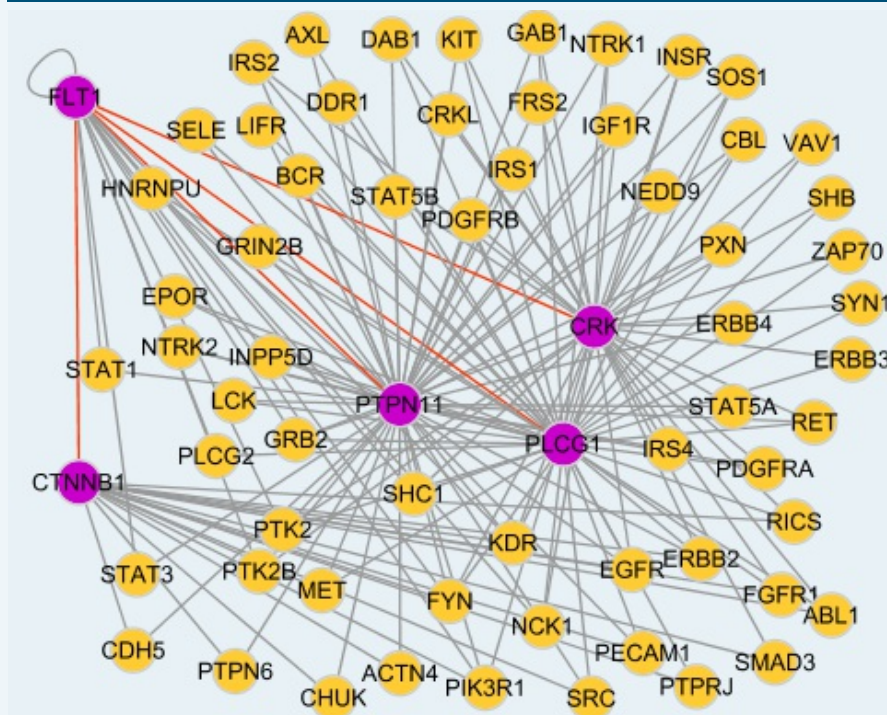
Omim ID: [172420](#)

Gene Ontology: [Hyperlink](#)

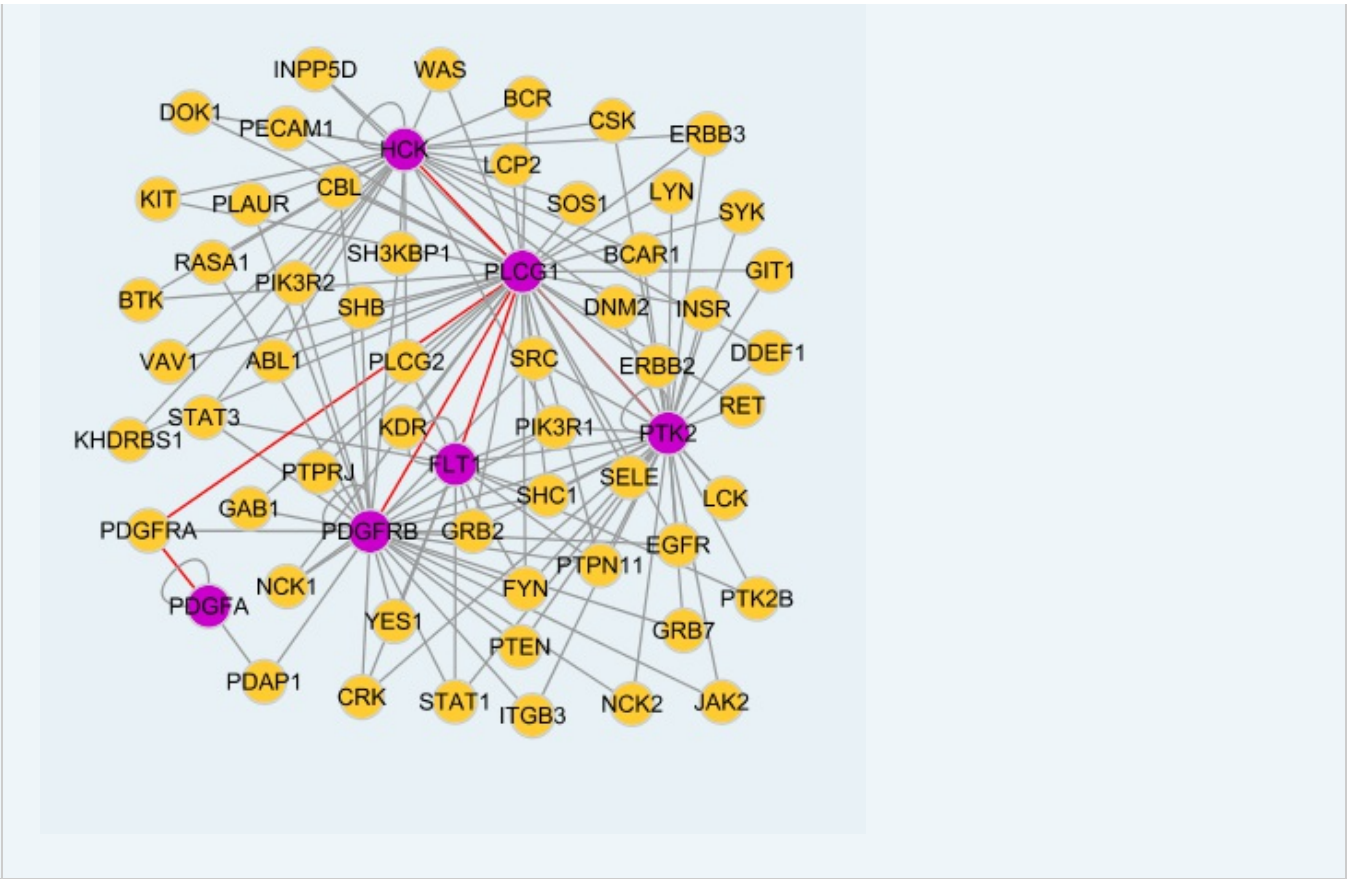
Gene Summary: The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase 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,inositoltrisphosphohydrolase,monophosphatidylinositol phosphodiesterase,phosphatidylinositol

Interactome 1



Interactome 2



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