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PDGFRB & PTPN11 Protein Protein Interaction Antibody Pair

Catalog # : DI0034

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 PDGFRB protein, and the other against the PTPN11 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

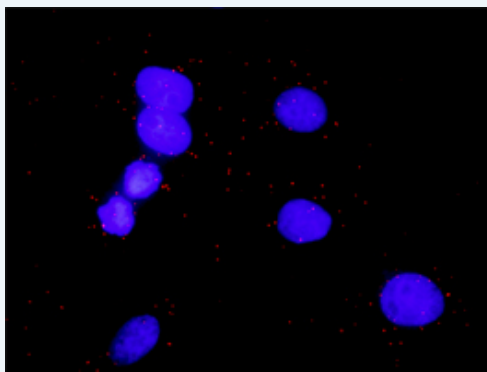
Application Image

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 PDGFRB and PTPN11. Mahlavu cells were stained with anti-PDGFRB rabbit purified polyclonal antibody 1:600 and anti-PTPN11 mouse purified polyclonal 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. PDGFRB rabbit purified polyclonal antibody (20 ug)
 2. PTPN11 mouse purified polyclonal 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)

[PDGFRB](#) [PTPN11](#)

Gene Information

Entrez GeneID: [5159](#)

Gene Name: PDGFRB

Gene Alias: CD140B,JTK12,PDGF-R-beta,PDGFR,PDGFR1

Gene Description: platelet-derived growth factor receptor, beta polypeptide

Omim ID: [131440](#), [173410](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. This gene is flanked on chromosome 5 by the genes for granulocyte-macrophage colony-stimulating factor and macrophage-colony stimulating factor receptor; all three genes may be implicated in the 5-q syndrome. A translocation between chromosomes 5 and 12, that fuses this gene to that of the translocation, ETV6, leukemia gene, results in chronic myeloproliferative disorder with eosinophilia. [provided by RefSeq]

Other Designations: beta platelet-derived growth factor receptor,platelet-derived growth factor receptor beta,soluble PDGFRb variant 1

Gene Information

Entrez GeneID: [5781](#)

Gene Name: PTPN11

Gene Alias: BPTP3,CFC,MGC14433,NS1,PTP-1D,PTP2C,SH-PTP2,SH-PTP3,SH-PTP2

Gene Description: protein tyrosine phosphatase, non-receptor type 11

Omim ID: [151100](#), [163950](#), [176876](#), [607785](#)

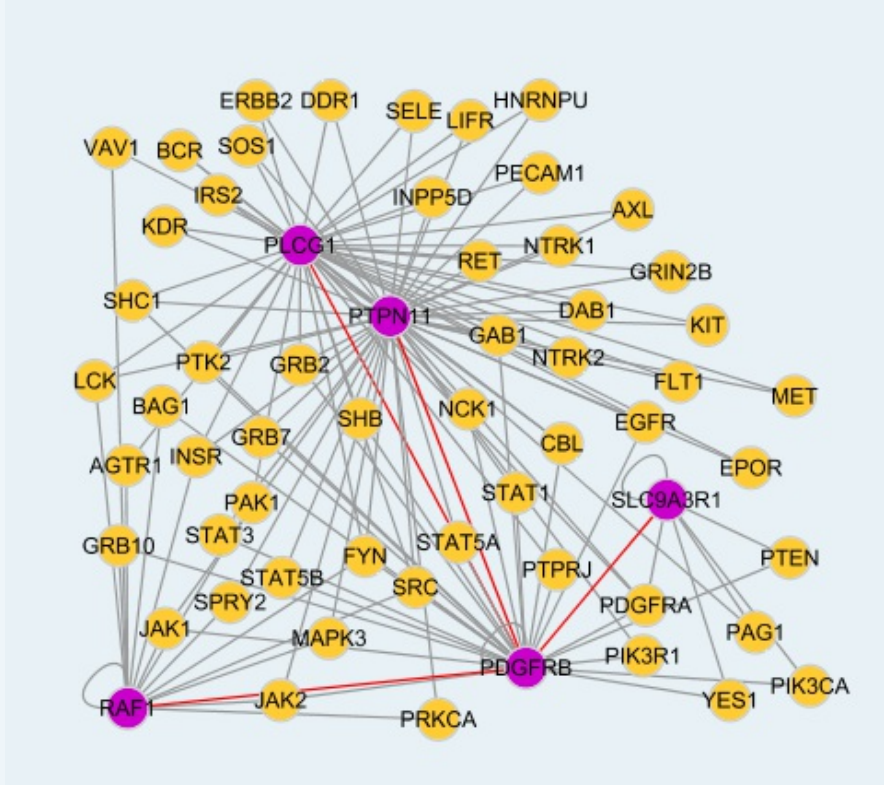
Gene Ontology: [Hyperlink](#)

Gene Summary: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules

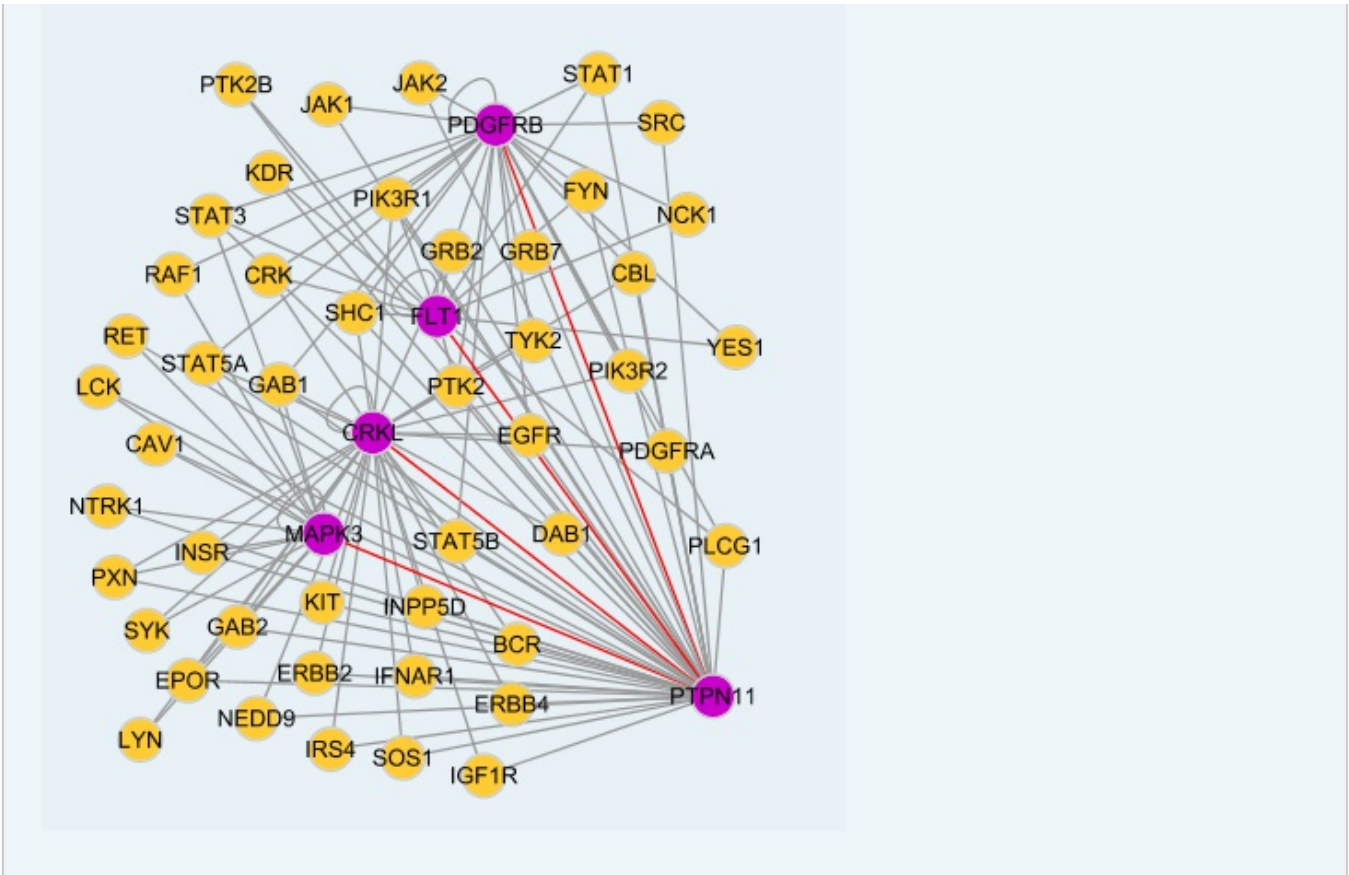
that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains two tandem Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate the interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions, such as mitogenic activation, metabolic control, transcription regulation, and cell migration. Mutations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia. [provided by RefSeq

Other Designations: protein tyrosine phosphatase-2,protein-tyrosine phosphatase 2C

Interactome 1



Interactome 2



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