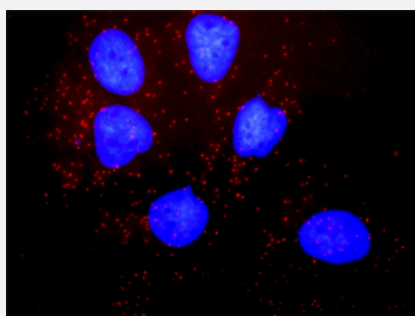


PDGFRB & SLC9A3R1 Protein Protein Interaction Antibody Pair

Catalog # DI0006

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PDGFRB and SLC9A3R1. Huh7 cells were stained with anti-PDGFRB rabbit purified polyclonal antibody 1:1200 and anti-SLC9A3R1 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 PDGFRB protein, and the other against the SLC9A3R1 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 PDGFRB and SLC9A3R1. Huh7 cells were stained with anti-PDGFRB rabbit purified polyclonal antibody 1:1200 and anti-SLC9A3R1 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. PDGFRB rabbit purified polyclonal antibody (100 ug)
2. SLC9A3R1 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 — PDGFRB

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 Info — SLC9A3R1

Entrez GeneID [9368](#)

Gene Name SLC9A3R1

Gene Alias EBP50, NHERF, NHERF1, NPHLOP2

Gene Description solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1

Omim ID [604990](#)

Gene Ontology [Hyperlink](#)

Gene Summary

This gene encodes a sodium/hydrogen exchanger regulatory cofactor. The protein interacts with and regulates various proteins including the cystic fibrosis transmembrane conductance regulator and G-protein coupled receptors such as the beta2-adrenergic receptor and the parathyroid hormone 1 receptor. The protein also interacts with proteins that function as linkers between integral membrane and cytoskeletal proteins. The protein localizes to actin-rich structures including membrane ruffles, microvilli, and filopodia. Mutations in this gene result in hypophosphatemic nephrolithiasis/osteoporosis type 2, and loss of heterozygosity of this gene is implicated in breast cancer

Other Designations

sodium/hydrogen exchanger regulatory factor 1|solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1

Pathway

- [Calcium signaling pathway](#)
- [Colorectal cancer](#)
- [Cytokine-cytokine receptor interaction](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Asthma](#)
- [Cardiovascular Diseases](#)

- [Crohn Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hyperparathyroidism](#)
- [Immune System Diseases](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Ovarian Neoplasms](#)
- [Psoriasis](#)
- [Schizophrenia](#)
- [Subdural Effusion](#)