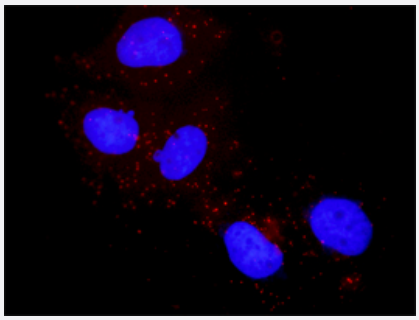
PTK2 & FLT1 Protein Protein Interaction Antibody Pair

Catalog # DI0001 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PTK2 and FLT1. Huh7 cells were stained with anti-PTK2 rabbit purified polyclonal antibody 1:1200 and anti-FLT1 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 PTK2 protein, and the other against the FLT1 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 PTK2 and FLT1. Huh7 cells were stained with anti-PTK2 rabbit purified polyclonal antibody 1:1200 and anti-FLT1 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 Products	Antibody pair set content: 1. PTK2 rabbit purified polyclonal antibody (100 ug) 2. FLT1 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

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- *In situ* Proximity Ligation Assay (Cell)

Gene Info — FLT1

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 Info — PTK2

Entrez GeneID	5747
Gene Name	PTK2
Gene Alias	FADK, FAK, FAK1, pp125FAK
Gene Description	PTK2 protein tyrosine kinase 2
Omim ID	600758
Gene Ontology	Hyperlink

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Gene Summary	This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. Th e encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks signific ant sequence similarity to kinases from other subfamilies. Activation of this gene may be an impor tant early step in cell growth and intracellular signal transduction pathways triggered in response t o certain neural peptides or to cell interactions with the extracellular matrix. At least four transcript variants encoding four different isoforms have been found for this gene, but the full-length natures of only two of them have been determined. [provided by RefSeq
Other Designations	focal adhesion kinase 1

Pathway

- Axon guidance
- Chemokine signaling pathway
- Cytokine-cytokine receptor interaction
- Endocytosis
- ErbB signaling pathway
- Focal adhesion
- Focal adhesion
- Leukocyte transendothelial migration
- Pathways in cancer
- Regulation of actin cytoskeleton
- Small cell lung cancer
- VEGF signaling pathway

Disease

- Abortion
- Adenocarcinoma
- Autistic Disorder
- Breast cancer

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- Breast Neoplasms
- Bronchial Hyperreactivity
- Cardiovascular Diseases
- Cell Transformation
- Chorioamnionitis
- Colorectal Neoplasms
- Diabetes Mellitus
- Edema
- Esophageal Neoplasms
- Fetal Growth Retardation
- Fetal Membranes
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- HIV Infections
- Hypercholesterolemia
- Hypersensitivity
- Inflammation
- Kidney Failure
- Leukemia
- Lymphoma
- Malaria
- Melanoma
- Mental Retardation
- Neovascularization
- Neovascularization
- Obstetric Labor

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- Placenta Diseases
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Psychotic Disorders
- Sarcoidosis
- Schizophrenia
- Scleroderma
- Skin Neoplasms
- Vaginosis

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