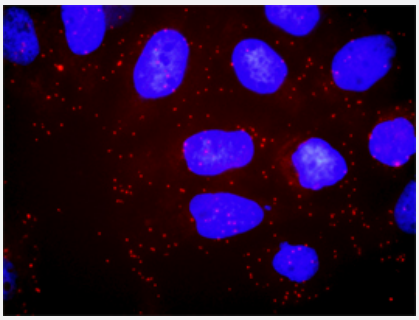
FLT1 & PIK3R1 Protein Protein Interaction Antibody Pair

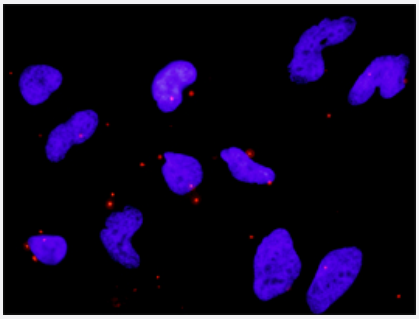
Catalog # DI0386 Size 1 Set

Applications



In situ Proximity Ligation Assay (Cell)

Representative image of Proximity Ligation Assay of protein-protein interactions between FLT1 and PIK3R1. Huh7 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:1200 and anti-PIK3R1 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 Analysis of protein-protein interactions between FLT1 and PIK3R1. HeLa cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:1200 and anti-PIK3R1 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 FLT1 protein, and the other against the PIK3R1 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 Analysis of protein-protein interactions between FLT1 and PIK3R1. HeLa cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:1200 and anti-PIK3R1 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.

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Supplied Products	Antibody pair set content: 1. FLT1 rabbit purified polyclonal antibody (100 ug) 2. PIK3R1 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 tha w 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 FLT1 and PIK3R1. Huh7 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:1200 and anti-PIK3R1 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 — 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 rece ptor)
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 ligan d-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a t yrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEG FR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesi s. 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 fo und for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, s oluble 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 VEG FR1 variant 21|vascular endothelial growth factor/vascular permeability factor receptor

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Gene Info — PIK3R1

Entrez GeneID	5295
Gene Name	PIK3R1
Gene Alias	GRB1, p85, p85-ALPHA
Gene Description	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
Omim ID	171833
Gene Ontology	Hyperlink
Gene Summary	Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prim e position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85 , 55, or 50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase pla ys an important role in the metabolic actions of insulin, and a mutation in this gene has been asso ciated with insulin resistance. Alternative splicing of this gene results in three transcript variants en coding different isoforms. [provided by RefSeq
Other Designations	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)|phosphatidylinositol 3 -kinase, regulatory, 1|phosphatidylinositol 3-kinase-associated p-85 alpha|phosphoinositide-3-kin ase, regulatory subunit 1 (p85 alpha)|phosphoinositide-3-ki

Pathway

- Acute myeloid leukemia
- Apoptosis
- B cell receptor signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Cytokine-cytokine receptor interaction
- Endocytosis
- Endometrial cancer
- ErbB signaling pathway

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- Glioma
- Insulin signaling pathway
- Jak-STAT signaling pathway
- Leukocyte transendothelial migration
- Melanoma
- mTOR signaling pathway
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Phosphatidylinositol signaling system
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- Small cell lung cancer
- T cell receptor signaling pathway
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- VEGF signaling pathway

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Disease

- Abortion
- Adenocarcinoma
- Alzheimer disease
- Body Weight
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Cardiovascular Diseases
- Cardiovascular Diseases
- Cell Transformation
- Chorioamnionitis
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Diabetes Mellitus
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Edema
- Esophageal Neoplasms
- Fetal Growth Retardation
- Fetal Membranes
- Genetic Predisposition to Disease

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Genetic Predisposition to Disease
- Glucose Intolerance
- HIV Infections
- Hypercholesterolemia
- Hypercholesterolemia
- Hypersensitivity
- Hypertension
- Inflammation
- Insulin Resistance
- Kidney Failure
- Kidney Failure
- Lymphoma
- Malaria
- Melanoma
- Neoplasms
- Neovascularization
- Obesity
- Obstetric Labor
- Pancreatic cancer
- Pancreatic Neoplasms
- Periodontitis
- Placenta Diseases
- Polycystic Ovary Syndrome
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Prostatic Neoplasms
- Sarcoidosis
- Scleroderma
- Skin Neoplasms
- Tobacco Use Disorder
- Vaginosis

Copyright © 2023 Abnova Corporation. All Rights Reserved.