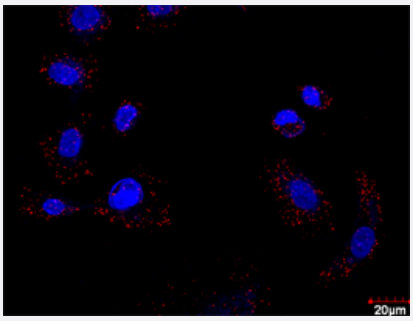
FLT1 & CRKL Protein Protein Interaction Antibody Pair

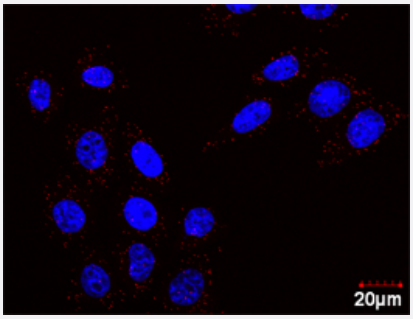
Catalog # DI0389 Size 1 Set

Applications



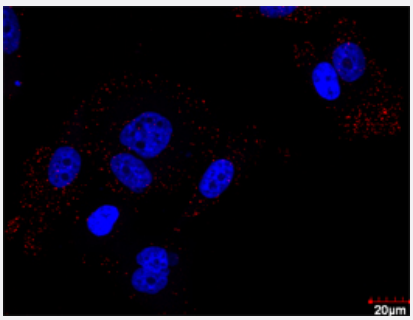
In situ Proximity Ligation Assay (Cell)

Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. A-549 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



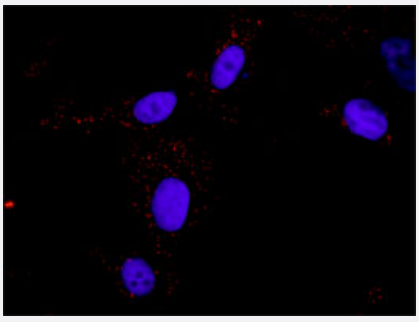
In situ Proximity Ligation Assay (Cell)

Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. HT-29 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



In situ Proximity Ligation Assay (Cell)

Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. PC-3 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



In situ Proximity Ligation Assay (Cell)

Representative image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. PC-3 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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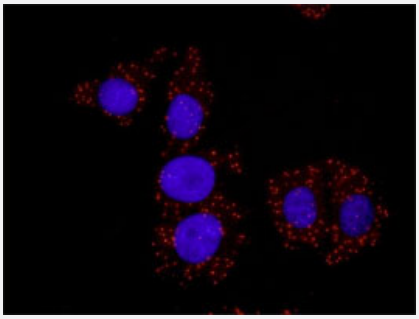
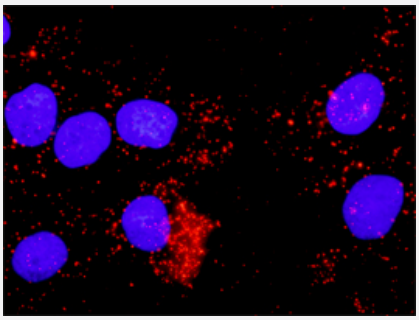


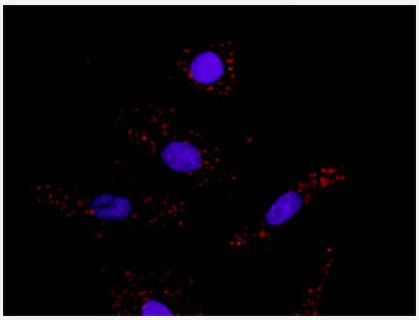
In situ Proximity Ligation Assay (Cell)

Representative image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. HT-29 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



In situ Proximity Ligation Assay (Cell)

Representative image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. Huh7 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:1200 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



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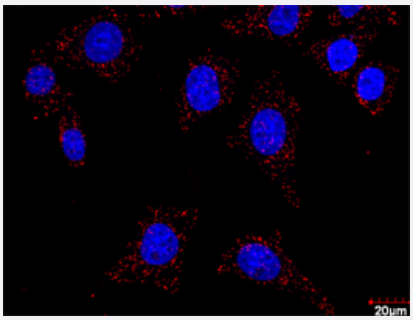
Representative image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. A-549 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Representative image of Proximity Ligation Analysis of protein-protein interactions between FLT1 and CRKL. HeLa cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL 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 CRKL protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.
Reactivity	Human

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Quality Control Testing	Protein protein interaction immunofluorescence result. Representative image of Proximity Ligation Analysis of protein-protein interactions between FLT1 and CRKL. HeLa cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL 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. FLT1 rabbit purified polyclonal antibody (100 ug) 2. CRKL 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)

  Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. A-549 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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Gene Info — CRKL

Entrez GeneID	1399
Gene Name	CRKL
Gene Alias	-
Gene Description	v-crk sarcoma virus CT10 oncogene homolog (avian)-like
Omim ID	602007
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein kinase containing SH2 and SH3 (src homology) domains which has been shown to activate the RAS and JUN kinase signaling pathways and transform fibroblasts in a RAS-dependent fashion. It is a substrate of the BCR-ABL tyrosine kinase, plays a role in fibroblast transformation by BCR-ABL, and may be oncogenic
Other Designations	v-crk avian sarcoma virus CT10 oncogene homolog-like

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

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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

Pathway

- Chemokine signaling pathway
- Chronic myeloid leukemia
- Cytokine-cytokine receptor interaction
- Endocytosis
- ErbB signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- Insulin signaling pathway
- MAPK signaling pathway
- Neurotrophin signaling pathway
- Pathways in cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma

Disease

- Abortion

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

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

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