



# SZABO SCANDIC

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Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## FLT1 & CRKL Protein Protein Interaction Antibody Pair

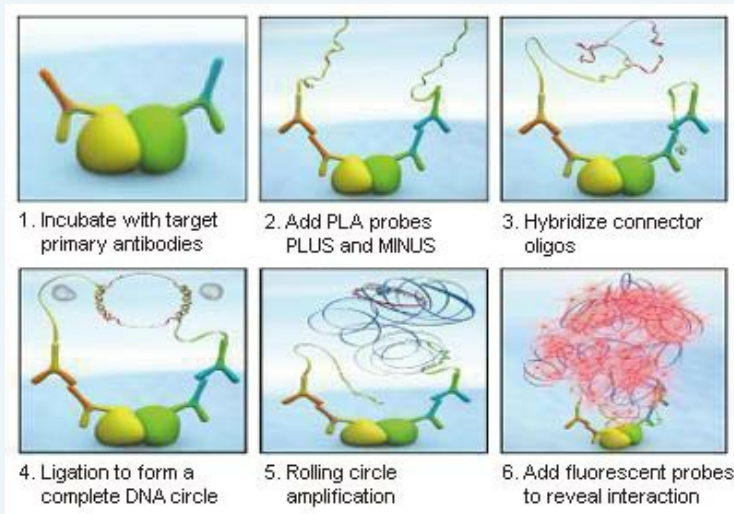
Catalog # : DI0389

規格 : [ 1 Set ]

List All

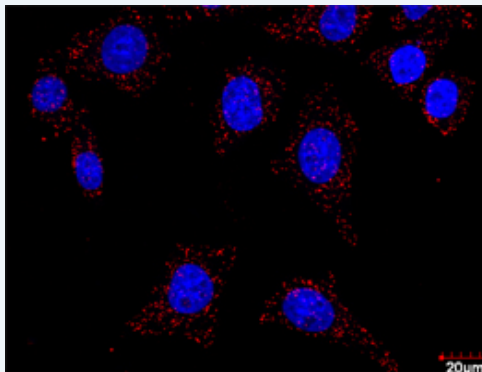
### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the FLT1 protein, and the other against the CRKL protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



**Reactivity:** Human

**Quality Control Testing:** Protein protein interaction immunofluorescence result.



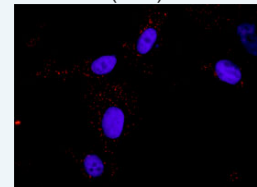
Representative image of Proximity Ligation Analysis of protein-protein interactions between FLT1 and CRKL. HeLa cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware ([BlobFinder](#)) download from The Centre for Image Analysis at Uppsala University.

**Supplied Product:** Antibody pair set content:  
 1. FLT1 rabbit purified polyclonal antibody (20 ug)  
 2. CRKL mouse monoclonal antibody (40 ug)  
 \*Reagents are sufficient for at least 30-50 assays using recommended protocols.

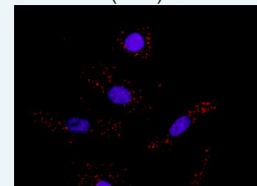
**Storage Instruction:** Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -

### Application Image

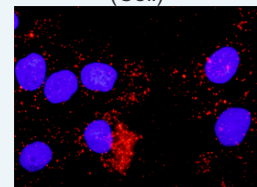
*In situ* Proximity Ligation Assay (Cell)



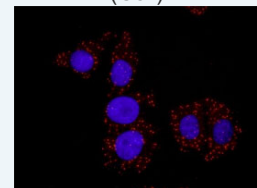
*In situ* Proximity Ligation Assay (Cell)



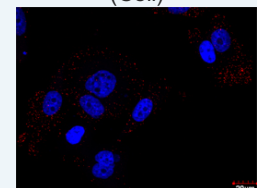
*In situ* Proximity Ligation Assay (Cell)



*In situ* Proximity Ligation Assay (Cell)



*In situ* Proximity Ligation Assay (Cell)



*In situ* Proximity Ligation Assay (Cell)

20°C storage immediately after use.

MSDS:

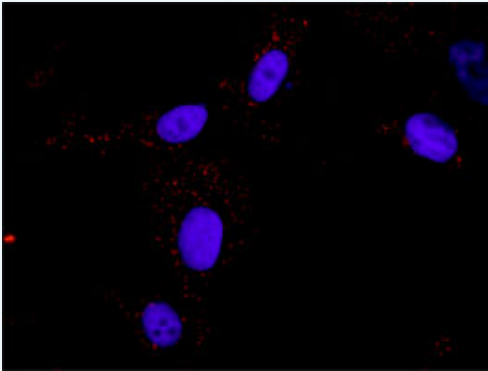
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### Publication Reference

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]

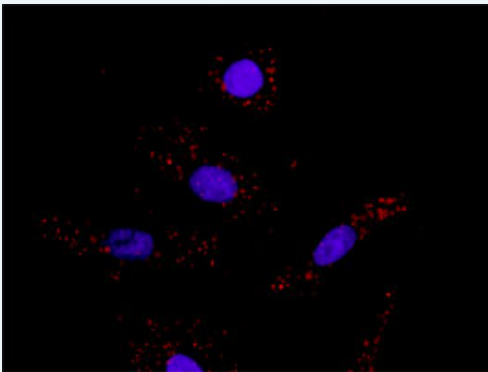
### Applications

#### *In situ* Proximity Ligation Assay (Cell)



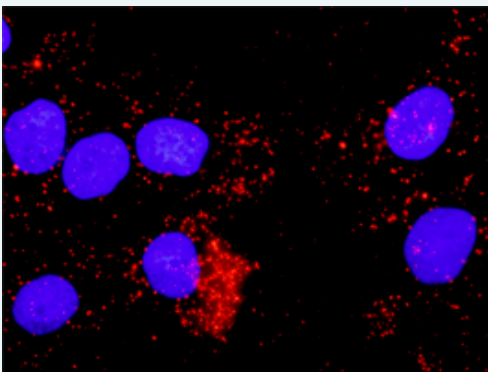
Representative image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. PC-3 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex,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

#### *In situ* Proximity Ligation Assay (Cell)

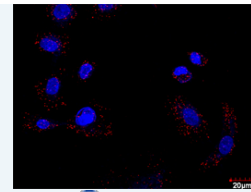


Representative image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. A-549 cells were stained with anti-FLT1 rabbit purified polyclonal antibody 1:100 and anti-CRKL mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction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

#### *In situ* Proximity Ligation Assay (Cell)

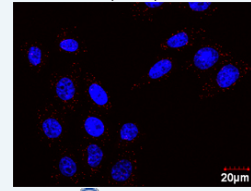



Representative image of Proximity Ligation Assay of protein-protein interactions between FLT1 and CRKL. Huh7 cells were stained with anti-FLT1 rabbit purified polyclonal antibody



 [enlarge](#)

#### *In situ* Proximity Ligation Assay (Cell)

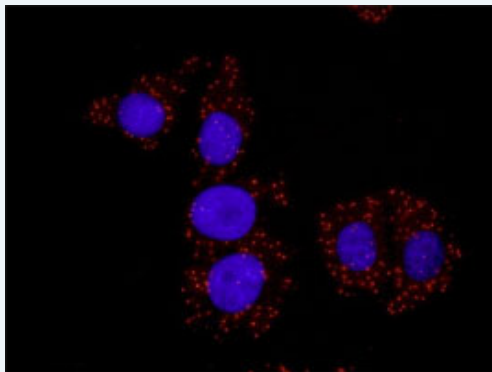


 [enlarge](#)

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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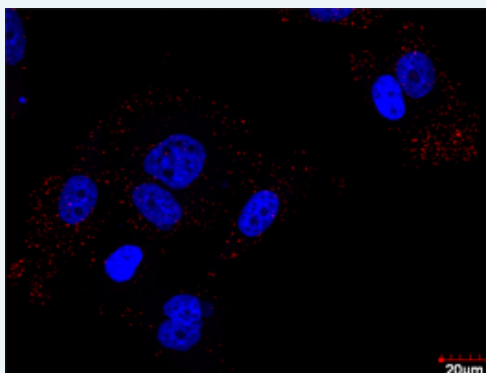
***In situ* Proximity Ligation Assay (Cell)**



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).

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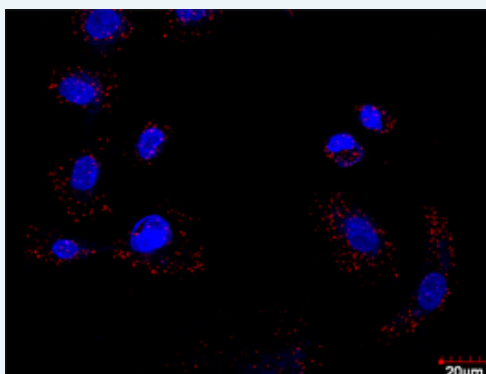
***In situ* Proximity Ligation Assay (Cell)**



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).

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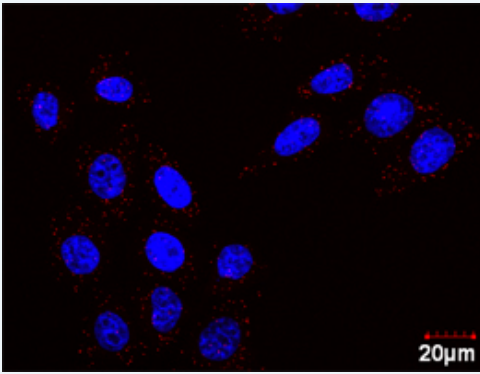
***In situ* Proximity Ligation Assay (Cell)**



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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***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).

[CRKL](#) [FLT1](#)

### Gene Information

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 Information

Entrez GeneID: [1399](#)

Gene Name: CRKL

Gene Alias: -

Gene Description: v-crk sarcoma virus CT10 oncogene homolog (avian)-like

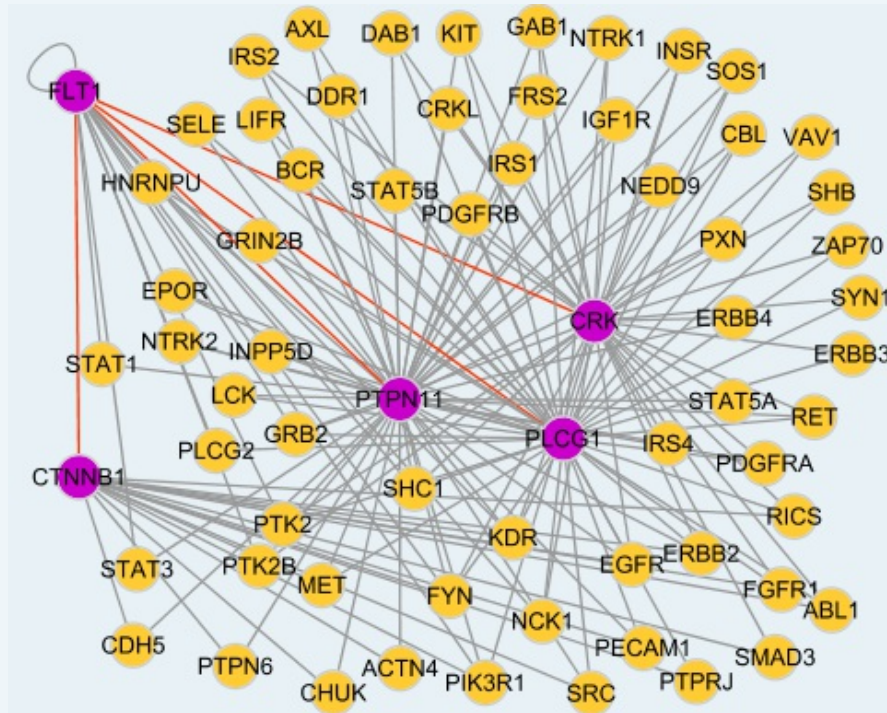
Omim ID: [602007](#)

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

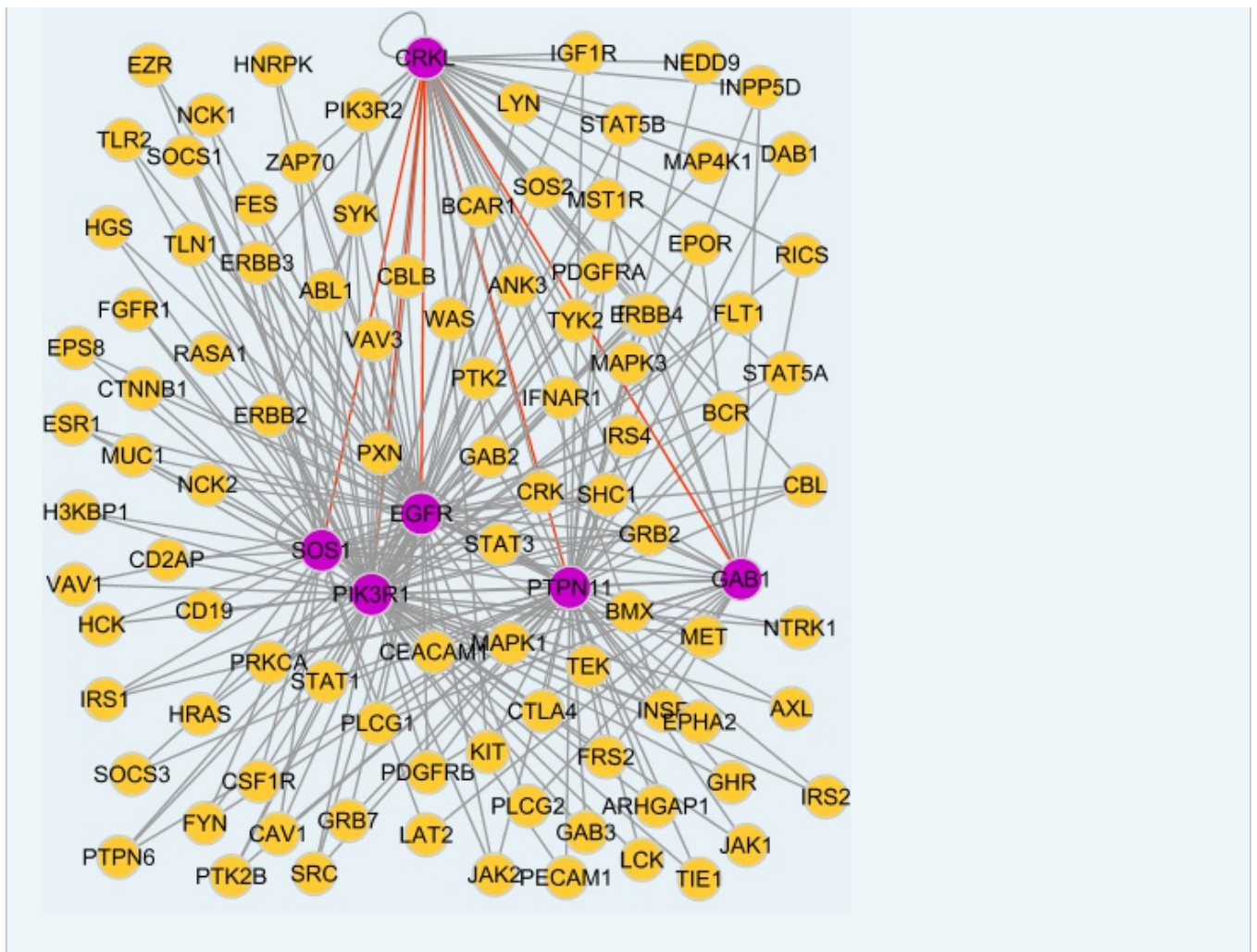
**Other Designations:** v-crk avian sarcoma virus CT10 oncogene homolog-like

### Interactome 1



### Interactome 2





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