



# SZABO SCANDIC

Part of Europa Biosite

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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## PTK2 & ITGAV Protein Protein Interaction Antibody Pair

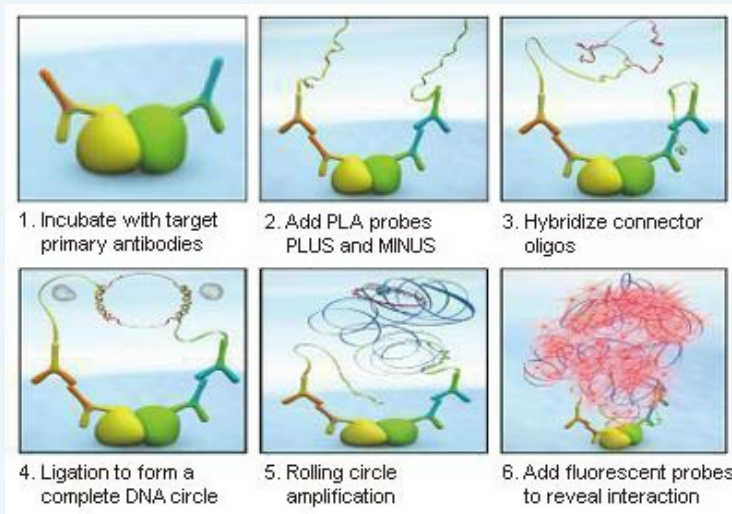
Catalog # : DI0387

規格 : [ 1 Set ]

List All

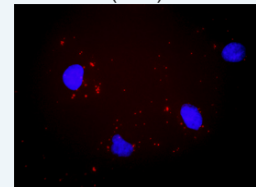
### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the PTK2 protein, and the other against the ITGAV protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



### Application Image

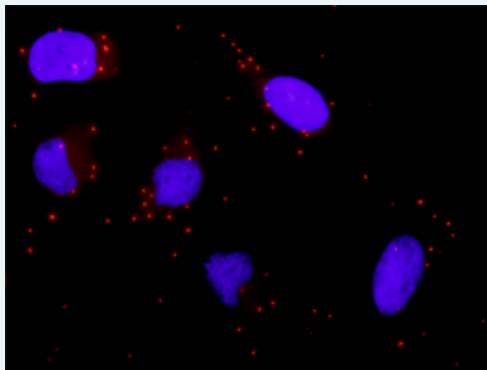
*In situ* Proximity Ligation Assay (Cell)



[enlarge](#)

**Reactivity:** Human

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



Representative image of Proximity Ligation Analysis of protein-protein interactions between PTK2 and ITGAV. HeLa cells were stained with anti-PTK2 rabbit purified polyclonal antibody 1:1200 and anti-ITGAV mouse purified polyclonal 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. PTK2 rabbit purified polyclonal antibody (20 ug)  
 2. ITGAV mouse purified polyclonal 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.

MSDS:

 [Download](#)

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## Publication Reference

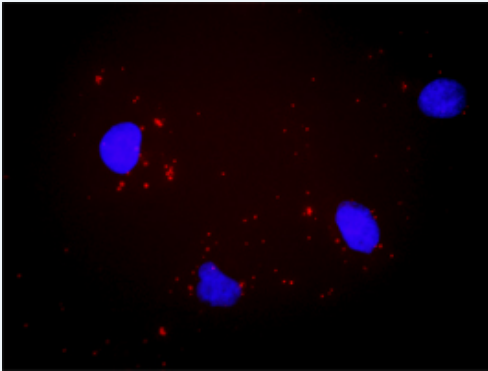
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1. [An analysis of protein-protein interactions in cross-talk pathways reveals CRKL as a novel prognostic marker in hepatocellular carcinoma.](#)  
Liu CH, Chen TC, Chau GY, Jan YH, Chen CH, Hsu CN, Lin KT, Juang YL, Lu PJ, Cheng HC, Chen MH, Chang CF, Ting YS, Kao CY, Hsiao M, Huang CY. Mol Cell Proteomics. 2013 Feb 8. [Epub ahead of print]
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## Applications

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



Representative image of Proximity Ligation Assay of protein-protein interactions between PTK2 and ITGAV. Mahlavu cells were stained with anti-PTK2 rabbit purified polyclonal antibody 1:1200 and anti-ITGAV mouse purified polyclonal 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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[ITGAV](#) [PTK2](#)

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## Gene Information

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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. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to 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]

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Other Designations: focal adhesion kinase 1

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## Gene Information

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Entrez GeneID: [3685](#)

Gene Name: ITGAV

Gene Alias: CD51,DKFZp686A08142,MSK8,VNRA

Gene Description: integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)

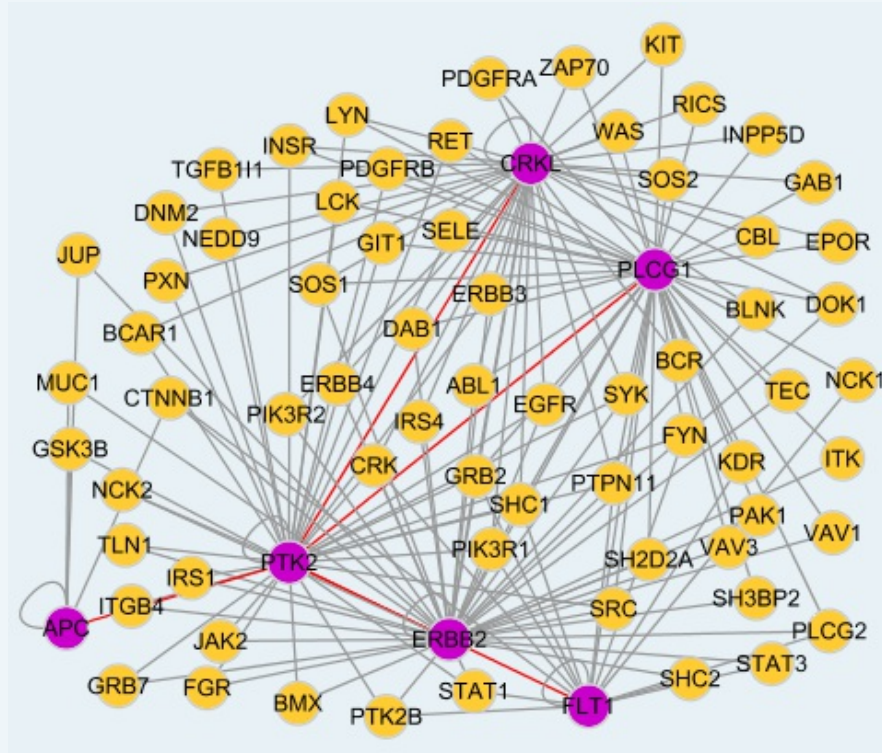
Omim ID: [193210](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** ITGAV encodes integrin alpha chain V. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. The I-domain containing integrin alpha V undergoes post-translational cleavage to yield disulfide-linked heavy and light chains, that combine with multiple integrin beta chains to form different integrins. Among the known associating beta chains (beta chains 1,3,5,6, and 8; 'ITGB1', 'ITGB3', 'ITGB5', 'ITGB6', and 'ITGB8'), each can interact with extracellular matrix ligands; the alpha V beta 3 integrin, perhaps the most studied of these, is referred to as the Vitronectin receptor (VNR). In addition to adhesion, many integrins are known to facilitate signal transduction. Alternative splicing results in multiple transcript variants. [provided by RefSeq]

**Other Designations:** Integrin, alpha-V (vitronectin receptor, alpha polypeptide),antigen identified by monoclonal antibody L230,integrin alpha-V

### Interactome



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