



# SZABO SCANDIC

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Zellkultur & Verbrauchsmaterial



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## HCK & PIK3CB Protein Protein Interaction Antibody Pair

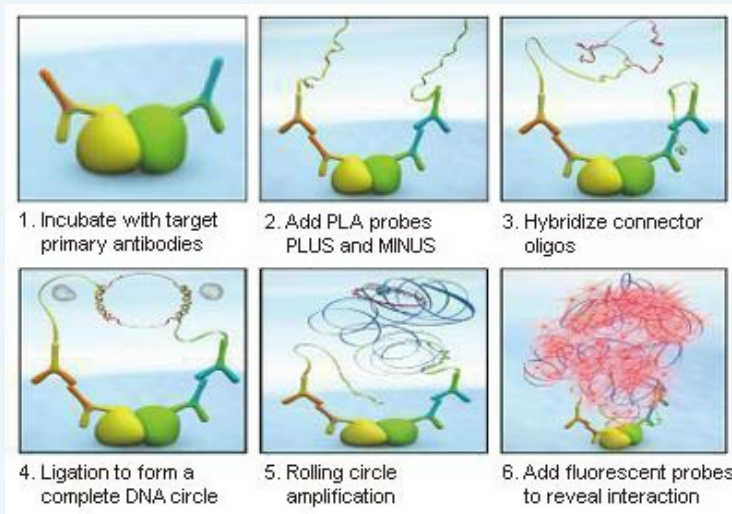
Catalog # : DI0014

規格 : [ 1 Set ]

List All

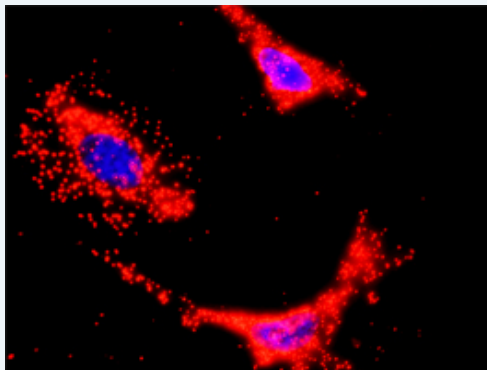
### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the HCK protein, and the other against the PIK3CB protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



**Reactivity:** Human

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



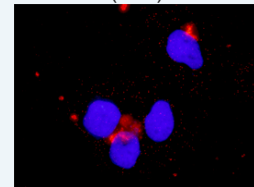
Representative image of Proximity Ligation Assay of protein-protein interactions between HCK and PIK3CB. HeLa cells were stained with anti-HCK rabbit purified polyclonal antibody 1:1200 and anti-PIK3CB mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction 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. HCK rabbit purified polyclonal antibody (20 ug)  
 2. PIK3CB 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)



[enlarge](#)

20°C storage immediately after use.

MSDS:

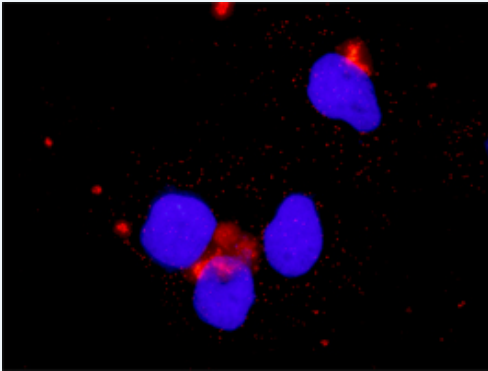
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## Publication Reference

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 HCK and PIK3CB. Huh7 cells were stained with anti-HCK rabbit purified polyclonal antibody 1:1200 and anti-PIK3CB mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

[HCK](#) [PIK3CB](#)

## Gene Information

Entrez GeneID: [3055](#)

Gene Name: HCK

Gene Alias: JTK9

Gene Description: hemopoietic cell kinase

Omim ID: [142370](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** The protein encoded by this gene is a protein-tyrosine kinase that is predominantly expressed in hemopoietic cell types. The encoded protein may help couple the Fc receptor to the activation of the respiratory burst. In addition, it may play a role in neutrophil migration and in the degranulation of neutrophils. Alternate translation initiation site usage, including a non-AUG (CUG) codon, results in the production of two different isoforms, that have different subcellular localization. [provided by RefSeq]

Other Designations: tyrosine protein kinase HCK

## Gene Information

Entrez GeneID: [5291](#)

**Gene Name:** PIK3CB

**Gene Alias:** DKFZp779K1237,MGC133043,PI3K,PI3KCB,PI3Kbeta,PIK3C1,p110-BETA

**Gene Description:** phosphoinositide-3-kinase, catalytic, beta polypeptide

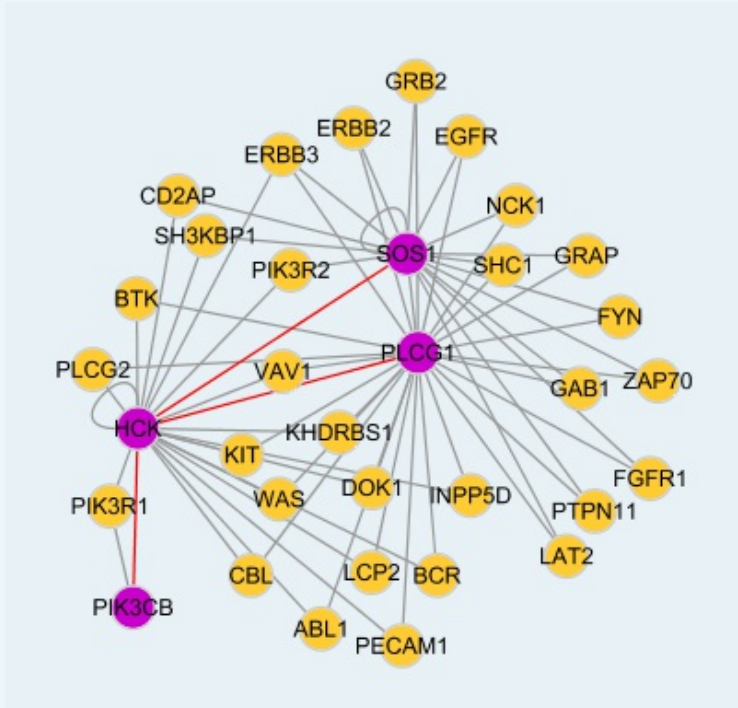
**Omim ID:** [602925](#)

**Gene Ontology:** [Hyperlink](#)

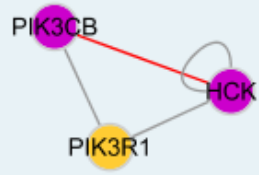
**Gene Summary:** Phosphoinositide 3-kinases (PI3Ks) phosphorylate the 3-prime OH position of the inositol ring of inositol lipids. They have been implicated as participants in signaling pathways regulating cell growth by virtue of their activation in response to various mitogenic stimuli. PI3Ks are composed of a 110-kD catalytic subunit, such as PIK3CB, and an 85-kD adaptor subunit (Hu et al., 1993 [PubMed 8246984]).[supplied by OMIM]

**Other Designations:** PI3-kinase p110 subunit beta,PtdIns-3-kinase p110,phosphatidylinositol 3-kinase, catalytic, beta polypeptide

### Interactome 1



### Interactome 2



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