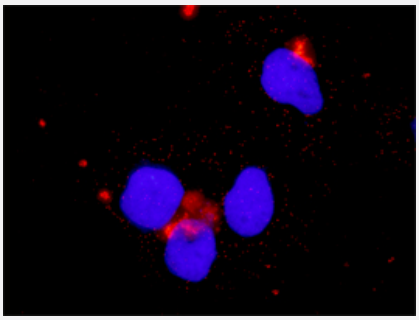
HCK & PIK3CB Protein Protein Interaction Antibody Pair

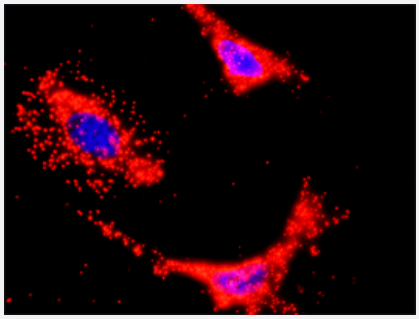
Catalog # DI0014 Size 1 Set

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).



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.

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.

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Supplied Products	Antibody pair set content: 1. HCK rabbit purified polyclonal antibody (100 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 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 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).

Gene Info — HCK

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 t he 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, result s in the production of two different isoforms, that have different subcellular localization. [provided b y RefSeq
Other Designations	tyrosine protein kinase HCK

Gene Info — PIK3CB

Entrez GeneID	5291
Gene Name	PIK3CB

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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 i nositol lipids. They have been implicated as participants in signaling pathways regulating cell gro wth 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 [PubMe d 8246984]).[supplied by OMIM
Other Designations	PI3-kinase p110 subunit beta|PtdIns-3-kinase p110|phosphatidylinositol 3-kinase, catalytic, beta polypeptide

Pathway

- Acute myeloid leukemia
- Apoptosis
- B cell receptor signaling pathway
- Chemokine signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Glioma
- Inositol phosphate metabolism

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- 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

Disease

- Adenocarcinoma
- Barrett Esophagus
- Breast cancer
- Breast Neoplasms
- Carcinoma

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- Cardiovascular Diseases
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Glucose Intolerance
- Hepatitis C
- HIV Infections
- HIV Infections
- Hypercholesterolemia
- Insulin Resistance
- Obesity
- Psychiatric Status Rating Scales
- Pulmonary Disease
- Schizophrenia

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