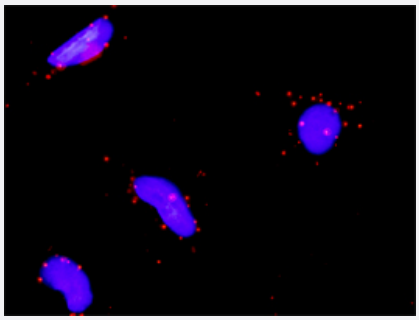
KIT & BCR Protein Protein Interaction Antibody Pair

Catalog # DI0531 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between KIT and BCR. HeLa cells were stained with anti-KIT rabbit purified polyclonal antibody 1:1200 and anti-BCR 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 KIT protein, and the other against the BCR 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 KIT and BCR. HeLa cells were stained with anti-KIT rabbit purified polyclonal antibody 1:1200 and anti-BCR 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. KIT rabbit purified polyclonal antibody (100 ug) 2. BCR 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

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- *In situ* Proximity Ligation Assay (Cell)

Gene Info — BCR

Entrez GeneID	613
Gene Name	BCR
Gene Alias	ALL, BCR-ABL1, BCR1, CML, D22S11, D22S662, FLJ16453, PHL
Gene Description	breakpoint cluster region
Omim ID	151410 608232
Gene Ontology	Hyperlink
Gene Summary	A reciprocal translocation between chromosomes 22 and 9 produces the Philadelphia chromoso me, which is often found in patients with chronic myelogenous leukemia. The chromosome 22 bre akpoint for this translocation is located within the BCR gene. The translocation produces a fusion protein which is encoded by sequence from both BCR and ABL, the gene at the chromosome 9 b reakpoint. Although the BCR-ABL fusion protein has been extensively studied, the function of the normal BCR gene product is not clear. The protein has serine/threonine kinase activity and is a G TPase-activating protein for p21rac. Two transcript variants encoding different isoforms have bee n found for this gene. [provided by RefSeq
Other Designations	bcr-abl1 e14a3 chimeric protein

Gene Info — KIT

Entrez GeneID	3815
Gene Name	KIT
Gene Alias	C-Kit, CD117, PBT, SCFR
Gene Description	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
Omim ID	164920 172800 273300 601626 606764
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the human homolog of the proto-oncogene c-kit. C-kit was first identified as th e cellular homolog of the feline sarcoma viral oncogene v-kit. This protein is a type 3 transmembra ne receptor for MGF (mast cell growth factor, also known as stem cell factor). Mutations in this ge ne are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous luk emia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq

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Other Designations	mast/stem cell growth factor receptor|proto-oncogene tyrosine-protein kinase Kit|soluble KIT variant 1

Pathway

- Acute myeloid leukemia
- Chronic myeloid leukemia
- Cytokine-cytokine receptor interaction
- Endocytosis
- Hematopoietic cell lineage
- Melanogenesis
- Pathways in cancer
- Pathways in cancer

Disease

- Acute Disease
- Alzheimer disease
- Aneuploidy
- Angina Pectoris
- Azoospermia
- Bipolar Disorder
- Brief Psychiatric Rating Scale
- Chromosome Breakage

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- Chronic Disease
- Constipation
- Coronary Vasospasm
- Depressive Disorder
- Disease Progression
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Hematologic Neoplasms
- Hyperpigmentation
- Infertility
- Leukemia
- Leukemia
- Liver Neoplasms
- Lung Neoplasms
- Lung Neoplasms
- Malignant melanoma
- Mastocytosis
- Melanoma
- Neoplasm
- Neoplasm Recurrence
- Neoplasm Seeding
- Oligospermia
- Osteoporosis
- Pancreatic cancer
- Pancreatic Neoplasms

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- Pulmonary Disease
- Skin Neoplasms
- Small Cell Lung Carcinoma
- Splenic Neoplasms
- Stomach Neoplasms
- Thyroid Neoplasms
- Tobacco Use Disorder
- Translocation
- Urinary Bladder Neoplasms
- Werner syndrome

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