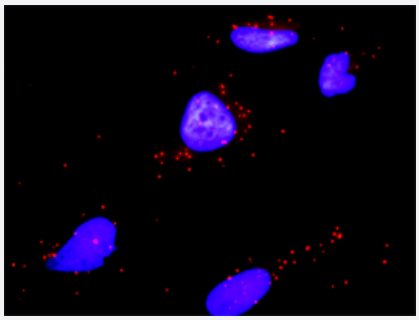
IKBKB & CLTC Protein Protein Interaction Antibody Pair

Catalog # DI0103 Size 1 Set

Applications



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

Entrez GeneID	1213
Gene Name	CLTC
Gene Alias	CHC, CHC17, CLH-17, CLTCL2, Hc, KIAA0034
Gene Description	clathrin, heavy chain (Hc)
Omim ID	118955
Gene Ontology	Hyperlink
Gene Summary	Clathrin is a major protein component of the cytoplasmic face of intracellular organelles, called co ated vesicles and coated pits. These specialized organelles are involved in the intracellular traffic king of receptors and endocytosis of a variety of macromolecules. The basic subunit of the clathri n coat is composed of three heavy chains and three light chains. [provided by RefSeq
Other Designations	clathrin heavy chain 1|clathrin, heavy polypeptide (Hc)|clathrin, heavy polypeptide-like 2

Gene Info — IKBKB

Entrez GeneID	3551
Gene Name	IKBKB
Gene Alias	FLJ40509, IKK-beta, IKK2, IKKB, MGC131801, NFKBIKB
Gene Description	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
Omim ID	603258
Gene Ontology	Hyperlink
Gene Summary	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA (MIM 164 014), or RELB (MIM 604758) to form the NFKB complex. The NFKB complex is inhibited by I-kap pa-B proteins (NFKBIA, MIM 164008, or NFKBIB, MIM 604495), which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinas es (IKBKA, MIM 600664, or IKBKB) marks them for destruction via the ubiquitination pathway, the reby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into th e nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T p yrimidine).[supplied by OMIM

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Other Designations	inhibitor of nuclear factor kappa B kinase beta subunit|nuclear factor NF-kappa-B inhibitor kinase beta

Pathway

- Acute myeloid leukemia
- Adipocytokine signaling pathway
- Apoptosis
- B cell receptor signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Endocytosis
- Epithelial cell signaling in Helicobacter pylori infection
- Insulin signaling pathway
- Lysosome
- MAPK signaling pathway
- Neurotrophin signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer
- T cell receptor signaling pathway
- Toll-like receptor signaling pathway
- Type II diabetes mellitus

Disease

- Arthritis

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- Asthma
- Bronchiolitis
- Cardiovascular Diseases
- Colonic Neoplasms
- Diabetes Mellitus
- Disease Susceptibility
- Edema
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hepatitis C
- HIV Infections
- Hodgkin Disease
- Infant
- Inflammation
- Lymphoma
- Lymphoproliferative Disorders
- Multiple Myeloma
- Occupational Diseases
- Rectal Neoplasms
- Respiratory Syncytial Virus Infections
- Thyroid Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

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