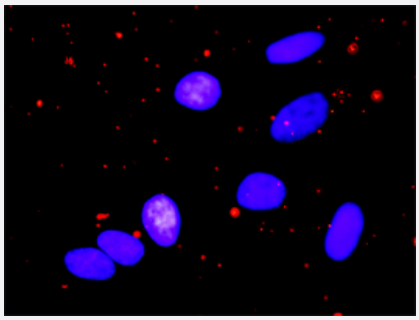
IKBKB & RELA Protein Protein Interaction Antibody Pair

Catalog # DI0248 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between IKBKB and RELA. HeLa cells were stained with anti-IKBKB rabbit purified polyclonal antibody 1:1200 and anti-RELA 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 RELA 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 RELA. HeLa cells were stained with anti-IKBKB rabbit purified polyclonal antibody 1:1200 and anti-RELA 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. RELA 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 — 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 164014), or RELB (MIM 604758) to form the NFKB complex. The NFKB complex is inhibited by I-kappa-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 kinases (IKBKA, MIM 600664, or IKBKB) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into the 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 pyrimidine).[supplied by OMIM
Other Designations	inhibitor of nuclear factor kappa B kinase beta subunit|nuclear factor NF-kappa-B inhibitor kinase beta

Gene Info — RELA

Entrez GeneID	5970
Gene Name	RELA
Gene Alias	MGC131774, NFKB3, p65
Gene Description	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
Omim ID	164014
Gene Ontology	Hyperlink

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Gene Summary	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA, or RELB (MIM 604758) to form the NFKB complex. The p50 (NFKB1)/p65 (RELA) heterodimer is the most abundant form of NFKB. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008 or NFKBIB, MIM 604495), which inactivate NFKB by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB, MIM 603258) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NFKB complex. Activated NFKB complex translocates into the 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 pyrimidine).[supplied by OMIM
Other Designations	nuclear factor of kappa light polypeptide gene enhancer in B-cells 3|v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (p65))|v-rel reticuloendotheliosis viral oncogene homolog

Pathway

- Acute myeloid leukemia
- Acute myeloid leukemia
- Adipocytokine signaling pathway
- Adipocytokine signaling pathway
- Apoptosis
- Apoptosis
- B cell receptor signaling pathway
- B cell receptor signaling pathway
- Chemokine signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Chronic myeloid leukemia
- Epithelial cell signaling in Helicobacter pylori infection
- Epithelial cell signaling in Helicobacter pylori infection
- Insulin signaling pathway
- MAPK signaling pathway
- MAPK signaling pathway

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- Neurotrophin signaling pathway
- Neurotrophin signaling pathway
- Pancreatic cancer
- Pancreatic cancer
- Pathways in cancer
- Pathways in cancer
- Prostate cancer
- Prostate cancer
- Small cell lung cancer
- Small cell lung cancer
- T cell receptor signaling pathway
- T cell receptor signaling pathway
- Toll-like receptor signaling pathway
- Toll-like receptor signaling pathway
- Type II diabetes mellitus

Disease

- Arthritis
- Arthritis
- Asthma
- Breast cancer
- Breast Neoplasms
- Bronchiolitis
- Cardiovascular Diseases
- Colonic Neoplasms
- Diabetes Mellitus

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- Disease Progression
- Disease Susceptibility
- Disease Susceptibility
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hematologic Diseases
- Hepatitis C
- HIV Infections
- HIV Infections
- Hodgkin Disease
- Hodgkin Disease
- Infant
- Inflammation
- Liver Cirrhosis
- Lymphoma
- Lymphoproliferative Disorders
- Lymphoproliferative Disorders
- Multiple Myeloma
- Multiple Myeloma
- Occupational Diseases
- Occupational Diseases
- Rectal Neoplasms
- Respiratory Syncytial Virus Infections
- Testicular Neoplasms

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- Thyroid Neoplasms
- Waldenstrom Macroglobulinemia
- Waldenstrom Macroglobulinemia
- Werner syndrome
- Werner syndrome

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