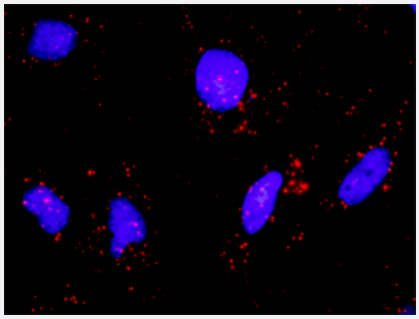
BIRC3 & IKBKB Protein Protein Interaction Antibody Pair

Catalog # DI0578 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between BIRC3 and IKBKB. HeLa cells were stained with anti-BIRC3 rabbit purified polyclonal antibody 1:1200 and anti-IKBKB 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 BIRC3 protein, and the other against the IKBKB 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 BIRC3 and IKBKB. HeLa cells were stained with anti-BIRC3 rabbit purified polyclonal antibody 1:1200 and anti-IKBKB 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. BIRC3 rabbit purified polyclonal antibody (100 ug) 2. IKBKB 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 — BIRC3

Entrez GeneID	330
Gene Name	BIRC3
Gene Alias	AIP1, API2, CIAP2, HAIP1, HIAP1, MALT2, MIHC, RNF49
Gene Description	baculoviral IAP repeat-containing 3
Omim ID	601721
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of a family of proteins that inhibits apoptosis by bi nding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2, probably by interf ering with activation of ICE-like proteases. The encoded protein inhibits apoptosis induced by ser um deprivation but does not affect apoptosis resulting from exposure to menadione, a potent indu cer of free radicals. The amino acid sequence predicts three baculovirus IAP repeat domains and a ring finger domain. Transcript variants encoding the same isoform have been identified. [provid ed by RefSeq
Other Designations	TNFR2-TRAF signaling complex protein|apoptosis inhibitor 2|baculoviral IAP repeat-containing pr otein 3|inhibitor of apoptosis protein 1|mammalian IAP homolog C

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

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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

Pathway

- Acute myeloid leukemia
- Adipocytokine signaling pathway
- Apoptosis
- Apoptosis
- B cell receptor signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Epithelial cell signaling in Helicobacter pylori infection
- Focal adhesion
- Insulin signaling pathway
- MAPK signaling pathway
- Neurotrophin signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer

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- Small cell lung cancer
- T cell receptor signaling pathway
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- Ubiquitin mediated proteolysis

Disease

- Adenocarcinoma
- Arthritis
- Asthma
- Bronchiolitis
- Cardiovascular Diseases
- Colonic Neoplasms
- Diabetes Mellitus
- Disease Susceptibility
- Ductus Arteriosus
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hepatitis C
- HIV Infections
- Hodgkin Disease
- Infant
- Infant

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- Inflammation
- Lung Neoplasms
- Lymphoma
- Lymphoproliferative Disorders
- Multiple Myeloma
- Occupational Diseases
- Pulmonary Disease
- Rectal Neoplasms
- Respiratory Syncytial Virus Infections
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome
- Werner syndrome

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