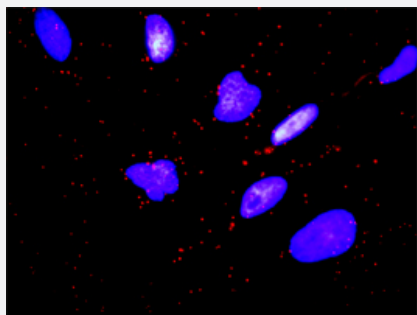


# IKBKB & CSF2RA Protein Protein Interaction Antibody Pair

Catalog # DI0109

Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between IKBKB and CSF2RA. HeLa cells were stained with anti-IKBKB rabbit purified polyclonal antibody 1:1200 and anti-CSF2RA 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 CSF2RA 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 CSF2RA. HeLa cells were stained with anti-IKBKB rabbit purified polyclonal antibody 1:1200 and anti-CSF2RA 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 Product

Antibody pair set content:  
1. IKBKB rabbit purified polyclonal antibody (100 ug)  
2. CSF2RA 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

- *In situ* Proximity Ligation Assay (Cell)

## Gene Info — CSF2RA

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">1438</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Name          | CSF2RA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Alias         | CD116, CDw116, CSF2R, CSF2RAX, CSF2RAY, CSF2RX, CSF2RY, GM-CSF-R-alpha, GMC SFR, GMR, MGC3848, MGC4838                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Description   | colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Omim ID            | <a href="#">306250 425000</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Summary       | The protein encoded by this gene is the alpha subunit of the heterodimeric receptor for colony stimulating factor 2, a cytokine which controls the production, differentiation, and function of granulocytes and macrophages. The encoded protein is a member of the cytokine family of receptors. This gene is found in the pseudoautosomal region (PAR) of the X and Y chromosomes. Multiple transcript variants encoding different isoforms have been found for this gene, with some of the isoforms being membrane-bound and others being soluble. [provided by RefSeq] |
| Other Designations | CD116 antigen GM-CSF receptor alpha subunit OTTHUMP00000014504 OTTHUMP00000014505 OTTHUMP00000014917 OTTHUMP00000014918 colony stimulating factor 2 receptor alpha chain colony stimulating factor 2 receptor alpha subunit granulocyte-macrophage colony-stimu                                                                                                                                                                                                                                                                                                             |

## Gene Info — IKBKB

|                  |                                                                            |
|------------------|----------------------------------------------------------------------------|
| Entrez GeneID    | <a href="#">3551</a>                                                       |
| 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          | <a href="#">603258</a>                                                     |
| Gene Ontology    | <a href="#">Hyperlink</a>                                                  |

## 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](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Cytokine-cytokine receptor interaction](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Hematopoietic cell lineage](#)
- [Insulin signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in 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](#)
- [Asthma](#)
- [Bronchiolitis](#)
- [Colonic Neoplasms](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [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](#)
- [Schizophrenia](#)

- [Thyroid Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)