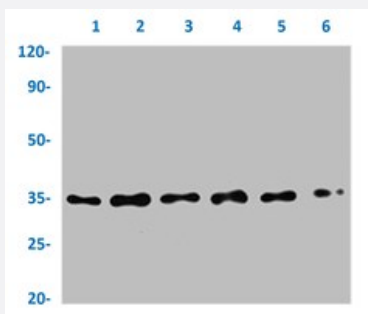


RecomAb™

# NFKBIA recombinant monoclonal antibody, clone 1E9

Catalog # RAB04345      Size 100 uL

## Applications

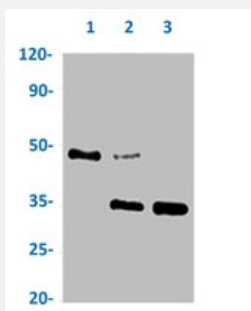


### Western Blot

Western blot analysis of Lane 1: Hela whole cell lysate, Lane 2: HepG2 whole cell lysate, Lane 3: Jurkat whole cell lysate, Lane 4: Raji whole cell lysate, Lane 5: PC3 whole cell lysate and Lane 6: THP-1 whole cell lysate with NFKBIA recombinant monoclonal antibody, clone 1E9 (Cat # RAB04345).

### Immunohistochemistry

Immunohistochemical staining of human endometrial cancer with NFKBIA recombinant monoclonal antibody, clone 1E9 (Cat # RAB04345) (diluted at 1:79.75).



### Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with NFKBIA recombinant monoclonal antibody, clone 1E9 (Cat # RAB04345).

Lane 1: rabbit control IgG, Lane 2: RAB04345 precipitates and Lane 3: Input (Hela whole cell lysates).

## Specification

### Product Description

Rabbit recombinant monoclonal antibody raised against human NFKBIA.

|                             |                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antibody Species</b>     | Rabbit                                                                                                                                                                                |
| <b>Immunogen</b>            | Original antibody is raised against a synthetic peptide corresponding to human NFKBIA.                                                                                                |
| <b>Theoretical MW (kDa)</b> | Calculated MW: 36 kD                                                                                                                                                                  |
| <b>Reactivity</b>           | Human                                                                                                                                                                                 |
| <b>Form</b>                 | Liquid                                                                                                                                                                                |
| <b>Purification</b>         | Affinity chromatography                                                                                                                                                               |
| <b>Isotype</b>              | IgG                                                                                                                                                                                   |
| <b>Recommend Usage</b>      | ELISA<br>Immunohistochemistry (1:50-1:200)<br>Immunoprecipitation (1:200-1:1000)<br>Western Blot (1:500-1:5000)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>       | In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)                                                                                                                       |
| <b>Storage Instruction</b>  | Store at -20 °C or -80 °C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                         |
| <b>Note</b>                 | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                |

## Applications

- Western Blot

Western blot analysis of Lane 1: Hela whole cell lysate, Lane 2: HepG2 whole cell lysate, Lane 3: Jurkat whole cell lysate, Lane 4: Raji whole cell lysate, Lane 5: PC3 whole cell lysate and Lane 6: THP-1 whole cell lysate with NFKBIA recombinant monoclonal antibody, clone 1E9 (Cat # RAB04345).

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Immunoprecipitation analysis of HeLa cell lysate with NFKBIA recombinant monoclonal antibody, clone 1E9 (Cat # RAB04345). Lane 1: rabbit control IgG, Lane 2: RAB04345 precipitates and Lane 3: Input (Hela whole cell lysates).

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — NFKBIA

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">4792</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protein Accession# | <a href="#">P25963</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Name          | NFKBIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Alias         | IKBA, MAD-3, NFKBI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Description   | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Omim ID            | <a href="#">164008</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 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 (IKBA, MIM 600664, or IKBKB, MIM 603258) 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 | IkappaBalph nuclear factor of kappa light chain gene enhancer in B-cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Pathway

- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Neurotrophin signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)

- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

## Disease

- [Adenocarcinoma](#)
- [Alcoholism](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Behcet Syndrome](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Stenosis](#)
- [Colorectal Neoplasms](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Empyema](#)
- [Esophageal Neoplasms](#)

- [Esophagitis](#)
- [Fetal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis B](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Infant](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Multiple Myeloma](#)
- [Musculoskeletal Diseases](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)

- [Pain](#)
- [Pneumococcal Infections](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Psoriasis](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Respiratory Syncytial Virus Infections](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)