

## Rabbit I kappaB beta Polyclonal Antibody | anti-NFKBIB antibody

Phospho-I kappaB beta (Ser23) Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA321736 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

I kappaB beta; Polyclonal Antibody; Phospho-I kappaB beta (Ser23) Antibody; I kappa B beta; I-kappa-B-beta; IkappaBbeta; IKB beta; IkB-B; IkB-beta; IKBB; IKBB\_HUMAN; IkBbeta; NF kappa BIB; NF-kappa-B inhibitor beta; NF-kappa-BIB; Nfkbib; Thyroid receptor interacting protein 9; Thyroid receptor-interacting protein 9; TR interacting protein 9; TR-interacting protein 9; TRIP-9; TRIP9; anti-NFKBIB antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                        |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                 |
| Reactivity                                       | Human, Mouse, Rat                                                                                                                      |
| Clonality                                        | Polyclonal                                                                                                                             |
| Isotype                                          | IgG                                                                                                                                    |
| Specificity                                      | Phospho-I kappaB-beta (Ser23) antibody detects endogenous levels of I kappaB-beta only when phosphorylated at Serine 23                |
| Purity/Purification                              | From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns. |
| Form/Format                                      | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                          |
| Concentration                                    | 1mg/ml (varies by lot)                                                                                                                 |
| Sequence Length                                  | 270                                                                                                                                    |
| Applicable Applications for anti-NFKBIB antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                               |
| Immunogen                                        | A synthesized peptide derived from human I kappaB-beta around the phosphorylation site of Serine 23                                    |
| Subcellular Location                             | Cytoplasm. Nucleus.                                                                                                                    |
| Tissue Specificity                               | Expressed in all tissues examined.                                                                                                     |
| Predicted Cross Reactivity                       | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken</b>                                                                                 |
| Similarity                                       | Pig (90%), Bovine (90%), Horse (90%), Sheep (90%), Rabbit (90%), Dog (90%), Chicken (88%)                                              |
| Conjugation                                      | Unconjugated                                                                                                                           |
| Epitope                                          | Phospho Ser23                                                                                                                          |
| Preparation and Storage                          | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                      |

IMAGES



IF (Immunofluorescence)

AAA321736 staining HeLa cells treated with TNF-a 20nM 15' by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



IHC (Immunohistochemistry)

AAA321736 at 1/100 staining human breast carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



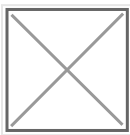
WB (Western Blot)

Western blot analysis of I kappaB-beta phosphorylation expression in TNF-a treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of Phospho-I kappaB beta (Ser23) expression in various lysates



IF (Immunofluorescence)

AAA321736 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-NFKBIB antibody | <p>Description: kB-beta a protein of the NF-kappa-B inhibitor family. Inhibits NF-kappa-B by complexing with and trapping it in the cytoplasm. However, the unphosphorylated form resynthesized after cell stimulation is able to bind NF-kappa-B allowing its transport to the nucleus and protecting it to further IKBA-dependent inactivation.</p> <p>Function: Inhibits NF-kappa-B by complexing with and trapping it in the cytoplasm. However, the unphosphorylated form resynthesized after cell stimulation is able to bind NF-kappa-B allowing its transport to the nucleus and protecting it to further NFKBIA-dependent inactivation. Association with inhibitor kappa B-interacting NKIRAS1 and NKIRAS2 prevent its phosphorylation rendering it more resistant to degradation, explaining its slower degradation.</p> <p>Subunit Structure: Interacts with THRB (via ligand-binding domain) (PubMed:7776974). Interacts with RELA and REL (By similarity). Interacts with COMMD1 (PubMed:16573520). Interacts with inhibitor kappa B-interacting Ras-like NKIRAS1 and NKIRAS2 (PubMed:10657303, PubMed:12672800, PubMed:15024091).</p> <p>Post-translational Modifications: Phosphorylated by RPS6KA1; followed by degradation. Interaction with NKIRAS1 and NKIRAS2 probably prevents phosphorylation.</p> <p>Similarity: Belongs to the NF-kappa-B inhibitor family.</p> |
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NCBI AND UNIPROT INFORMATION

|                           |                                       |
|---------------------------|---------------------------------------|
| NCBI GI #                 | 340805857                             |
| NCBI GeneID               | 4793                                  |
| NCBI Accession #          | NP_001230045.1                        |
| NCBI GenBank Nucleotide # | NM_001243116.1                        |
| UniProt Accession #       | Q15653; Q96BJ7; A8K3F4                |
| Molecular Weight          | Observed: 37 kDa<br>Predicted: 38 kDa |
| NCBI Official Full Name   | NF-kappa-B inhibitor beta isoform 2   |

|                                  |                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------|
| NCBI Official Synonym Full Names | NFKB inhibitor beta                                                                       |
| NCBI Official Symbol             | NFKBIB                                                                                    |
| NCBI Official Synonym Symbols    | IKBB; TRIP9                                                                               |
| NCBI Protein Information         | NF-kappa-B inhibitor beta                                                                 |
| UniProt Protein Name             | NF-kappa-B inhibitor beta                                                                 |
| UniProt Gene Name                | <b>NFKBIB</b>                                                                             |
| UniProt Synonym Gene Names       | IKBB; TRIP9; NF-kappa-BIB; IkB-B; IkB-beta; IkappaBbeta; TR-interacting protein 9; TRIP-9 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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