

# IKB alpha Antibody

Rabbit mAb

Catalog # AP90093

## Product Information

|                          |  |
|--------------------------|--|
| <b>Application</b>       | WB, IHC, IF, ICC, IP, IHF  |
| <b>Primary Accession</b> | <a href="#">P25963</a>   |
| <b>Reactivity</b>        | Rat, Human, Mouse  |
| <b>Clonality</b>         | Monoclonal   |
| <b>Other Names</b>       | I-kappa-B-alpha; NFKBI; NFKBIA; NF-kappaB inhibitor alpha; IKBA; IkappaBalph; MAD3; RL/IF-1; |
| <b>Isotype</b>           | Rabbit IgG   |
| <b>Host</b>              | Rabbit   |
| <b>Calculated MW</b>     | 35609  |

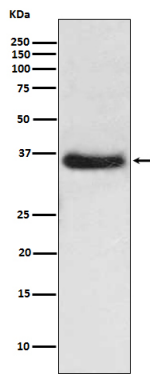
## Additional Information

|                                     |   |
|-------------------------------------|---|
| <b>Dilution</b>                     | WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:30  |
| <b>Purification</b>                 | Affinity-chromatography   |
| <b>Immunogen</b>                    | A synthesized peptide derived from human IKB alpha  |
| <b>Description</b>                  | 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. |
| <b>Storage Condition and Buffer</b> | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.   |

## Protein Information

|                          |   |
|--------------------------|---|
| <b>Name</b>              | NFKBIA  |
| <b>Synonyms</b>          | IKBA, MAD3, NFKBI   |
| <b>Function</b>          | Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL (RELA/p65 and NFKB1/p50) dimers in the cytoplasm by masking their nuclear localization signals (PubMed: <a href="#">1493333</a> , PubMed: <a href="#">36651806</a> , PubMed: <a href="#">7479976</a> ). On cellular stimulation by immune and pro-inflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription (PubMed: <a href="#">7479976</a> , PubMed: <a href="#">7628694</a> , PubMed: <a href="#">7796813</a> , PubMed: <a href="#">7878466</a> ). |
| <b>Cellular Location</b> | Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.   |

# Images



Western blot analysis of IKB alpha expression in HeLa cell lysate.

Image not found : 202311/AP90093-IHC.jpg

Immunohistochemical analysis of paraffin-embedded mouse stomach, using IKB alpha Antibody.

Image not found : 202311/AP90093-IF.jpg

Immunofluorescent analysis of Hela cells, using IKB alpha Antibody .

Image not found : 202311/AP90093-wb6.jpg

Synergistic protection of matrine and lycopene against lipopolysaccharide  induced acute lung injury in mice.  
-Molecular Medicine Reports

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