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Anti-IKBα C-terminal (RABBIT) Antibody
IKB alpha Antibody
Catalog # ASR3805

Specification

Anti-IKBα C-terminal (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Rat, Human, Mouse**
Clonality	**Polyclonal**
Application	**WB, IHC, E, I, LCI**
Application Note	**Anti-IkBa Antibody has been tested by western blot and is suitable for ELISA, and IHC. Researchers should determine optimal titers for applications that are not stated below.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**IKB alpha Antibody was produced by repeated immunizations with a synthetic IkBa peptide corresponding to a region near the C-terminus of the human protein.**
Preservative	**0.1% (w/v) Sodium Azide**

Anti-IKBα C-terminal (RABBIT) Antibody - Additional Information

Gene ID 4792

Other Names
4792

Purity
IKB alpha Antibody was prepared from monospecific antiserum by delipidation and defibrination. Anti- IkBa may react non-specifically with other proteins. Control peptide (code #100-4167P) will compete only with the specific reaction of antiserum with IkBa.

Storage Condition
Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-IKBα C-terminal (RABBIT) Antibody - Protein Information

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Name NFKBIA

Synonyms IKBA, MAD3, NFKBI

Function
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:1493333, PubMed:36651806, PubMed:7479976). 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:7479976, PubMed:7628694, PubMed:7796813, PubMed:7878466).

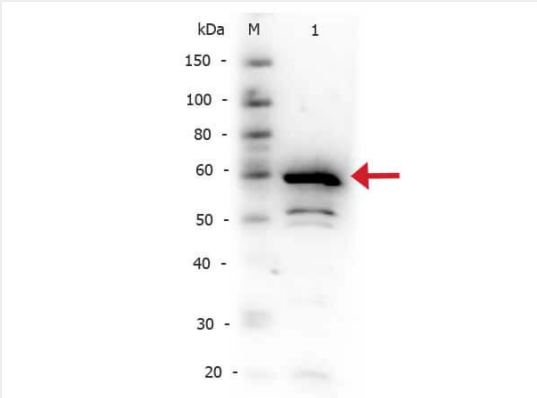
Cellular Location
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

Anti-IKBα C-terminal (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-IKBα C-terminal (RABBIT) Antibody - Images



Western Blot of Rabbit anti-IKBα C-terminal antibody. Lane 1: IKBα C-terminal. Load: 50 ng per lane. Primary antibody: IKBα C-terminal antibody at 1:500 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: Blocking Buffer for Fluorescent Western Blotting (MB-070) for 30 min RT. Predicted/Observed size: 61 kDa,

61 kDa for IKBα C-terminal.

Anti-IKBα C-terminal (RABBIT) Antibody - Background

Anti-IKB alpha Antibody detects IkBa. I-kappa-B-alpha inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL dimers in the cytoplasm through masking of their nuclear localization signals. On cellular stimulation by immune and proinflammatory responses, IKBA becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription. Anti-IKBa Antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction and Immunology research.