

**Phospho-IKB alpha (Y42) Antibody**  
Rabbit mAb  
Catalog # AP93266**Specification****Phospho-IKB alpha (Y42) Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P25963</a>
Clonality	Monoclonal
<b>Other Names</b>	
IKBA; IKBalpha; MAD3; NFKBI; NFKBIA;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	35609 Da

**Phospho-IKB alpha (Y42) Antibody - Additional Information**

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Phospho-IKB alpha (Y42)
Description	Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL dimers in the cytoplasm through masking of their nuclear localization signals.
Storage Condition and Buffer	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.

**Phospho-IKB alpha (Y42) Antibody - Protein Information****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](http://www.uniprot.org/citations/1493333), PubMed: [36651806](http://www.uniprot.org/citations/36651806), PubMed: [7479976](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/7479976), PubMed: [7628694](http://www.uniprot.org/citations/7628694), PubMed: [7796813](http://www.uniprot.org/citations/7796813))

target="\_blank">7796813</a>, PubMed:<a href="http://www.uniprot.org/citations/7878466" target="\_blank">7878466</a>).

#### **Cellular Location**

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

#### **Phospho-IKB alpha (Y42) 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 Cytometry](#)
- [Cell Culture](#)

#### **Phospho-IKB alpha (Y42) Antibody - Images**