10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Phospho-IKB alpha (S32) Antibody
Rabbit mAb
Catalog # AP90575

Specification

Phospho-IKB alpha (S32) Antibody - Product Information

Application	**WB, ICC, IP**
Primary Accession	P25963
Clonality	**Monoclonal**
Other Names	
I-kappa-B-alpha; IKBA; IkappaBalpha; MAD3; NFKBI; NFKBIA; RL/IF-1;	
Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**35609 Da**

Phospho-IKB alpha (S32) Antibody - Additional Information

Dilution	**WB~~1:1000** **ICC~~N/A** **IP~~N/A**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human Phospho-IKB alpha (S32)**
Description	**Activation occurs via phosphorylation of IκBα at Ser32 and Ser36 followed by proteasome-mediated degradation that results in the release and nuclear translocation of active NF-κB. IκBα phosphorylation and resulting Rel-dependent transcription are activated by a highly diverse group of extracellular signals including inflammatory cytokines, growth factors, and chemokines. Kinases that phosphorylate IκB at these activating sites have been identified.**
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 (S32) 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, 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).

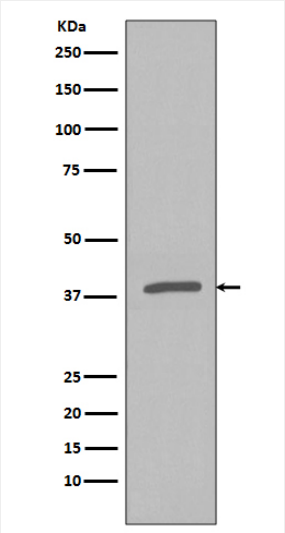
Cellular Location
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

Phospho-IKB alpha (S32) 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

Phospho-IKB alpha (S32) Antibody - Images



Western blot analysis of Phospho-IKB alpha (S32) expression in HeLa cell lysate treated with Calyculin A and TNF-a.