

Phospho-NFKBIA(Ser32)) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3714a**Specification**

Phospho-NFKBIA(Ser32)) Antibody Blocking peptide - Product InformationPrimary Accession [P25963](#)**Phospho-NFKBIA(Ser32)) Antibody Blocking peptide - Additional Information**

Gene ID 4792

Other Names

NF-kappa-B inhibitor alpha, I-kappa-B-alpha, Ikb-alpha, IkappaBalpha, Major histocompatibility complex enhancer-binding protein MAD3, NFKBIA, IKBA, MAD3, NFKBI

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-NFKBIA(Ser32)) Antibody Blocking peptide - 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:7479976, PubMed:36651806). 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:7796813, PubMed:7628694, PubMed:7878466, PubMed:7479976).

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-NFKBIA(Ser32)) Antibody Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-NFKBIA(Ser32)) Antibody Blocking peptide - Images

Phospho-NFKBIA(Ser32)) Antibody Blocking peptide - Background

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. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB, MIM 603258) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime.

Phospho-NFKBIA(Ser32)) Antibody Blocking peptide - References

Wu, S., et al. J. Clin. Endocrinol. Metab. 95(3):1220-1228(2010) Senol Tuncay, S., et al. Biochem. Genet. 48 (1-2), 104-112 (2010) Hung, Y.H., et al. Dis. Markers 28(1):55-62(2010) McGeachie, M., et al. Circulation 120(24):2448-2454(2009)