

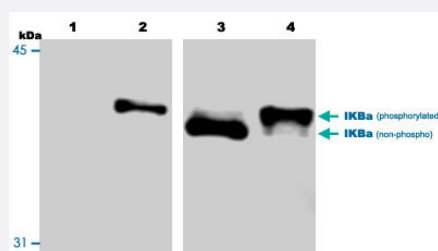
NFKBIA (phospho S32/S36) monoclonal antibody, clone 39A1413

Catalog # MAB0056

Size 100 ug

Applications

Western Blot (Cell lysate)



Jurkat cells were treated for 30 min with 100 ug/mL ALLN (N-Acetyl-Leu-Leu-Norleucinal; a Calpain inhibitor and also proteasome inhibitor that prevents IκBa dephosphorylation) followed by incubation with (lanes 2 & 4) or without 1 nM TNF-α (1 & 3). The membranes were blotted with NFKBIA monoclonal antibody, clone 39A1413 (Cat # MAB0056) (lanes 1 & 2) or NFKBIA monoclonal antibody, clone 6A920 (Cat # MAB0057) (that recognizes both non-phospho and phosphorylated forms of IκBa) and immunoreactivity was detected by ECL. The data shows that Cat # MAB0056 detects specifically the phosphorylated form of NFKBIA.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic phosphopeptide of NFKBIA.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S32/S36 of human NFKBIA.
Host	Mouse
Reactivity	Human, Mouse
Form	Liquid
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% BSA, 0.05% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Jurkat cells were treated for 30 min with 100 ug/mL ALLN (N-Acetyl-Leu-Leu-Norleucinal; a Calpain inhibitor and also proteasome inhibitor that prevents I κ Ba dephosphorylation) followed by incubation with (lanes 2 & 4) or without 1 nM TNF- α (1 & 3). The membranes were blotted with NFKBIA monoclonal antibody, clone 39A1413 (Cat # MAB0056) (lanes 1 & 2) or NFKBIA monoclonal antibody, clone 6A920 (Cat # MAB0057) (that recognizes both non-phospho and phosphorylated forms of I κ Ba) and immunoreactivity was detected by ECL. The data shows that Cat # MAB0056 detects specifically the phosphorylated form of NFKBIA.

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — NFKBIA

Entrez GeneID [4792](#)

Gene Name NFKBIA

Gene Alias IKBA, MAD-3, NFKBI

Gene Description nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha

Omim ID [164008](#)

Gene Ontology [Hyperlink](#)

Gene Summary NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA (MIM 164014), or RELB (MIM 604758) to form the NF κ B complex. The NF κ B complex is inhibited by I κ B proteins (NFKBIA or NFKBIB, MIM 604495), which inactivate NF- κ B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I κ B proteins by kinases (IKBA, MIM 600664, or IKKB, MIM 603258) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF- κ B complex. Activated NF κ B 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 (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).[supplied by OMIM]

Other Designations IkappaBalpha|nuclear factor of kappa light chain gene enhancer in B-cells

Publication Reference

- [Cardioprotection afforded by inducible nitric oxide synthase gene therapy is mediated by cyclooxygenase-2 via a nuclear factor-kappaB dependent pathway.](#)

Li Q, Guo Y, Tan W, Ou Q, Wu WJ, Sturza D, Dawn B, Hunt G, Cui C, Bolli R.

Circulation 2007 Sep; 116(14):1577.

- [Rituximab \(chimeric anti-CD20 monoclonal antibody\) inhibits the constitutive nuclear factor- \$\kappa\$ B signaling pathway in non-Hodgkin's lymphoma B-cell lines: role in sensitization to chemotherapeutic drug-induced apoptosis.](#)

Jazirehi AR, Huerta-Yepez S, Cheng G, Bonavida B.

Cancer Research 2005 Jan; 65(1):264.

Pathway

- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Neurotrophin signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Alcoholism](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Behcet Syndrome](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
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- [Esophagitis](#)
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- [Hematologic Diseases](#)

- [Hepatitis B](#)
- [HIV Infections](#)
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- [Infant](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
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- [Malignant melanoma](#)
- [Melanoma](#)
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- [Premature Birth](#)
- [Psoriasis](#)

- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Respiratory Syncytial Virus Infections](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)