

Product Datasheet

I κ B-alpha [p Ser32, p Ser36] Antibody (39A1413) - BSA Free **NB100-56724**

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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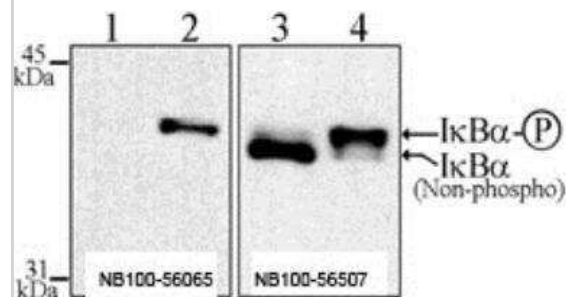
NB100-56724I κ B-alpha [p Ser32, p Ser36] Antibody (39A1413) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	39A1413
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	4792
Gene Symbol	NFKBIA
Species	Human, Mouse, Rat, Porcine, Bovine, Canine
Immunogen	This monoclonal antibody was raised against a synthetic peptide containing phosphorylated serines at amino acid residues 32 and 36 of human I κ B α .
Product Application Details	
Applications	Western Blot, Simple Western, Immunoprecipitation
Recommended Dilutions	Western Blot 1-2 ug/ml, Simple Western 1:50, Immunoprecipitation 1-2 ug/ml
Application Notes	Simple Western reported by an internal validation: tested in MCF10A-/ +EGF, Jurkat-/ +TNF, HEK293-/ +UV; antibody dilution of 1:50; separated by charge

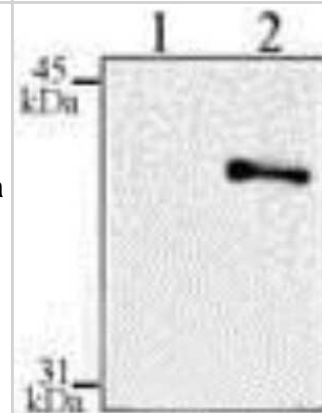


Images

Western Blot: I κ B-alpha [p Ser32, p Ser36] Antibody (39A1413) [NB100-56724] - Analysis using the Biotin conjugate of NB100-56724. Detection of 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-a (1 & 3). The membranes were blotted with this antibody.



Western Blot: I κ B-alpha [p Ser32, p Ser36] Antibody (39A1413) [NB100-56724] - 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 (lane 2) or without 1 nM TNF-a (lane 1). The membrane was blotted with NB100-56724 and immunoreactivity was detected by ECL. The data shows that NB100-56724 detects specifically the phosphorylated form of I κ Ba.



Publications

Shahbazi S, Zakerali T The inhibitory role of benzo-dioxole-piperamide on the phosphorylation process as an NF-Kappa B silencer *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie* 2021-11-28 [PMID: 34852990] (ICC/IF, WB, Human)

Wen ZS, Tang Z, Gu LX et al. Immunomodulatory effect of low molecular-weight seleno-aminopolysaccharide on immunosuppressive mice. *Int. J. Biol. Macromol.* 2018-10-17 [PMID: 30342138] (WB, Mouse)

Kanno Y, Maruyama C, Matsuda A, Ishisaki A. uPA-derived peptide, A6 is involved in the suppression of lipopolysaccharide-promoted inflammatory osteoclastogenesis and the resultant bone loss. *Immun Inflamm Dis* 2017-05-11 [PMID: 28493442] (WB, Mouse)

Gu LX, Wen ZS, Xiang XW et al. Immunomodulatory effect of low molecular-weight seleno-aminopolysaccharides in intestinal epithelial cells. *Int. J. Biol. Macromol.* 2017-03-04 [PMID: 28267616] (WB, Porcine)

Lotz Sonja, Aga Eresso, Wilde Inga et al. Highly purified lipoteichoic acid activates neutrophil granulocytes and delays their spontaneous apoptosis via CD14 and TLR2. *J Leukoc Biol.* 2004-03-01 [PMID: 14673018]

Shakibaei Mehdi, Allaway David, Nebrich Simone, Mobasheri Ali. Botanical Extracts from Rosehip (*Rosa canina*), Willow Bark (*Salix alba*), and Nettle Leaf (*Urtica dioica*) Suppress IL-1beta-Induced NF-kappaB Activation in Canine Articular Chondrocytes. *Evid Based Complement Alternat Med.* 2012-01-01 [PMID: 22474508]

Samanta D, Gilkes D, Chaturvedi P, Xiang L, Semenza G. Hypoxia-inducible factors are required for chemotherapy resistance of breast cancer stem cells. *Proc Natl Acad Sci U S A.* 2014-12-01 [PMID: 25453096] (WB, Human)

Das U, Manna K, Sinha M et al. Role of ferulic Acid in the amelioration of ionizing radiation induced inflammation: a murine model. *PLoS One* 2014-05-24 [PMID: 24854039] (WB, Mouse)

Jazirehi AR, Huerta-Yepez S, Cheng G et al. Rituximab (chimeric anti-CD20 monoclonal antibody) inhibits the constitutive nuclear factor- κ B signaling pathway in non-Hodgkin's lymphoma B-cell lines: role in sensitization to chemotherapeutic drug-induced apoptosis. *Cancer Res.* 2005-01-01 [PMID: 15665303] (WB)

Details:

WB (Ramos and Daudi cells growing in RPMI 1640 and 1% fetal bovine serum and rituximab), Fig. 4a

Ikezoe T, Yang Y, Heber D et al. PC-SPES: a potent inhibitor of nuclear factor-kappa B rescues mice from lipopolysaccharide-induced septic shock. *Mol Pharmacol.* 2003-12-01 [PMID: 14645683]

Han HS, Karabiyikoglu M, Kelly S et al. Mild hypothermia inhibits nuclear factor-kappaB translocation in experimental stroke. *J Cereb Blood Flow Metab.* 2003-05-01 [PMID: 12771574]

Details:

Products cited for western blot in male Sprague-Dawley rats ischemic cortex, ischemic subcortex, contralateral cortex, and contralateral subcortex tissue. The rats were subject to mild and delayed hypothermia. 1. IKK-gamma (IMG-324A): Fig 4A & 4B. 2. I κ B-

Li Q, Guo Y, Tan W et al. Cardioprotection afforded by inducible nitric oxide synthase gene therapy is mediated by cyclooxygenase-2 via a nuclear factor-kappaB dependent pathway. *Circulation.* 2007-10-02 [PMID: 17785622] (WB, Mouse)

Details:

WB (WT, COX-2^{-/-}, I κ B α (Ser 32A, Ser 36A) Tg mice injected with iNOS gene), Fig. 5.

More publications at <http://www.novusbio.com/NB100-56724>



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NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NB100-56065	I κ B-alpha [p Ser32, p Ser36] Antibody (39A1413) [Biotin]

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