

Rabbit I-kappa-Ba (Tyr-42) Polyclonal Antibody

I-kappa-Ba (Tyr-42), phospho-specific

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71521	Rabbit	Human, Rat, Mouse	Immunoprecipitation, Western Blot, ELISA

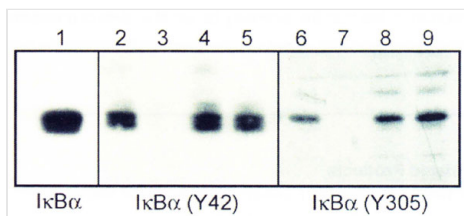
PRODUCT SYNONYMS

I-kappa-Ba (Tyr-42); Polyclonal Antibody; phospho-specific; NF-kappa-B inhibitor alpha; IKB-alpha; IkappaBalpha; Major histocompatibility complex enhancer-binding protein; MAD3; IKBa; anti-I-kappa-Ba (Tyr-42) antibody

PRODUCT SPECIFICATIONS

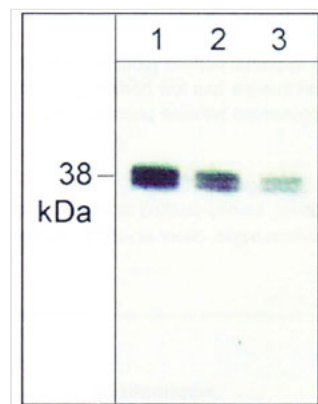
Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	This antibody was cross-adsorbed to phospho-tyrosine coupled to agarose then affinity purified using phospho- I-kappa-B-beta (Tyr-42) peptide (without carrier). The antibody detects a 38 kDa* protein on SDS-PAGE immunoblots of A431 and Jurkat cells treated with pervanadate, but not in control cells. Due to homologies to tyrosine sites on other proteins, it is recommended that the antibody be used to detect phosphorylation of immunoprecipitated I-kappa-B-alpha.
Purity/Purification	Affinity Purified
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 1001-11 phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-I-kappa-Ba (Tyr-42) antibody	IP (Immunoprecipitation), WB (Western Blot), ELISA
Immunogen	IkBa (Tyr-42) synthetic peptide (coupled to KLH) corresponding to amino acid residues around tyrosine 42 of human IkBa. This peptide sequence has low homology to other IkB proteins, but does have some homology to unrelated proteins that may have a conserved tyrosine phosphorylation motif.
Preparation and Storage	Store at -20°C. Stable for 1 year.

IMAGES



WB (Western Blot)

Western blot analysis of A431 cells treated with pervanadate (1 mM) for 30 min. Blots were probed with anti-IκBa (lane 1), anti-IκBa (Tyr-42) (IP1 031; lanes 2-5), or anti-IκBa (Tyr-305) (IP1 041; lanes 6-9). In some lanes, the antibodies were used in the absence (lane 2 & 6) or presence of IκBa (Tyr-42) (lane 3 & 8) or IκBa (Tyr-305) (lane 4 & 7) blocking peptides, or BSA conjugated to phospho-tyrosine (lane 5 & 9).



WB (Western Blot)

Western blot image of human A431. The Blots were probed with antiIKBa (C-term.) polyclonal antibody at a dilution of 1500 (lane 1), 1:1000 (lane 2), and 1 :2000 (lane 3).

ADDITIONAL INFORMATION

Related Product Information for anti-I-kappa-Ba (Tyr-42) antibody	The NF-kB/Rel transcription factors are present in the cytosol in an inactive state complexed with the inhibitory IκB proteins. Activation of IκBa occurs through both serine and tyrosine phosphorylation events. Activation through phosphorylation at Ser-32 and Ser-36 is followed by proteasome-mediated degradation, resulting in the release and nuclear translocation of active NF-kB. This pathway of IκBa regulation occurs in response to various NF-kB-activating agents, such as TNF-α, interleukins, LPS, and irradiation. An alternative pathway for IκBa regulation occurs through tyrosine phosphorylation of Tyr-42 and Tyr-305. Tyr-42 is phosphorylated in response to oxidative stress and growth factors. This phosphorylation can lead to degradation of IκB-α and NF-kB-activation. In contrast, Tyr-305 phosphorylation by c-Abl has been implicated in IκB-α nuclear translocation and inhibition of NF-kB-activation. Thus, tyrosine phosphorylation of IκB-α may be an important regulatory mechanism in NF-kB signaling.
References	• Bui, N.T. et al. (2001) J Cell Biol 152(4):753. (Background) • Waris et al. (2003) J Biol Chem 278(42):40778. (Background) • Naidu, S. et al. (2008) J Immunol. 181:4113. (WB: Mouse RAW264.7) • Sethi, G. et al. (2007) Oncogene 26(52):7324. (WB: H. epithelial H1299, Y42F) • Boosani, C.S. et al. (2007) Blood 110(4):1168. (WB: M. lung endothelial, MLEC)

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/i-kappa-ba-tyr-42-antibody-immunoprecipitation-western-blot-elisa/71521>