Product datasheet

Anti-IkB Alpha/NFKBIA Antibody

Catalog Number: *PB9291*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-IkB Alpha/NFKBIA Antibody
Gene Name	NFKBIA
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human IKB alpha recombinant protein (Position: Q3-Q112). Human IKB alpha shares 87% and 86% amino acid (aa) sequence identity with mouse and rat IKB alpha, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	39 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

NFKBIA, also called IKBA or MAD-3, is one member of a family of cellular proteins that function to inhibit the NF-κB transcription factor. It is mapped to 14q13.2. NFKBIA inhibits NF-κB by masking the nuclear localization signals(NLS) of NF-κB proteins and keeping them sequestered in an inactive state in the cytoplasm. It moves between the cytoplasm and the nucleus via a nuclear localization signal and CRM1-mediated nuclear export. The effect of the nonpathogenic bacteria is specific to the SCF complex substrates CTNNB1 and NFKBIA. This may help to explain the beneficial effects of treatment of inflammatory bowel disease with nonpathogenic probiotic enteric organisms. In addition, NFKBIA blocks the ability of NF-κB transcription factors to bind to DNA, which is required for NF-κB's proper functioning.

Reference

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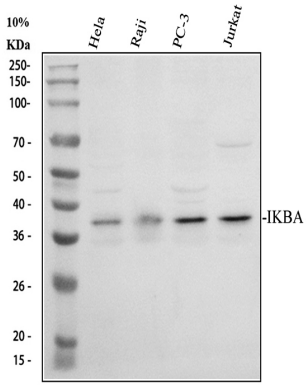
Anti-IkB Alpha/NFKBIA Antibody被引用在29文献中。

Selected Validation Data



Western blot analysis of IkB Alpha/NFKBIA using anti-IkB Alpha/NFKBIA antibody (PB9291). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human Raji whole cell lysates,
Lane 3: human PC-3 whole cell lysates,
Lane 4: human Jurkat whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-IkB Alpha/NFKBIA antigA03957-Aen affinity purified polyclonal antibody (PB9291) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for IkB Alpha/NFKBIA at approximately 39 kDa. The expected band size for IkB Alpha/NFKBIA is at 36 kDa.