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Anti-NF-kB p65/RELA Antibody Picoband®

Catalog Number: PB9087

About RELA

Transcription factor p65, also known as NFKB3 or NF-kB p65, is a protein that in humans is encoded by the RELA gene. It is mapped to 11q13.1. NFKB is an essential transcription factor complex involved in all types of cellular processes, including cellular metabolism, chemotaxis, etc, and it may play a role in inflammatory conditions of the peripheral nervous system. Phosphorylation and acetylation of NFKB3 are crucial post-translational modifications required for NFKB activation. It has also been shown to modulate immune responses, and activation of NFKB3 is positively associated with multiple types of cancer. In addition to that, NFKB3 antagonizes TNFR1-JNK proliferative signals in epidermis and plays a nonredundant role in restraining epidermal growth.

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Overview

Product Name	Anti-NF-kB p65/RELA Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-NF-kB p65/RELA Antibody Picoband® catalog # PB9087. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q04206

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antibody and ELISA experts

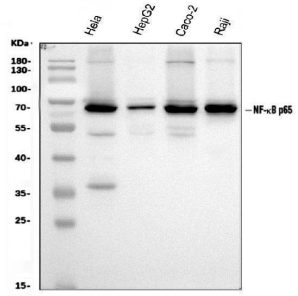
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Technical Details

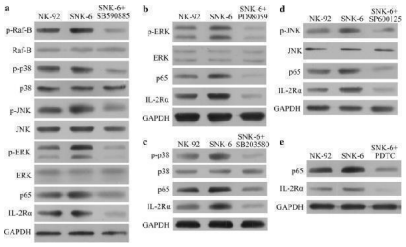
Immunogen	E.coli-derived human NF-kB p65 recombinant protein (Position: F99-S551). Human NF-kB p65 shares 86% amino acid (aa) sequence identity with mouse NF-kB p65.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

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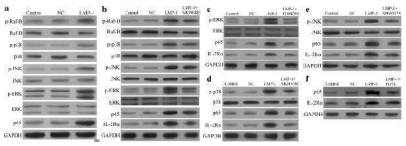
Anti-NF-kB p65/RELA Antibody Picoband® (PB9087) Images



Western blot analysis of NF-kB p65/RELA using anti-NF-kB p65/RELA antibody (PB9087). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. 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 HepG2 whole cell lysates, Lane 3: human Caco-2 whole cell lysates, Lane 4: human Raji whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NF-kB p65/RELA antigen affinity purified polyclonal antibody (Catalog # PB9087) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NF-kB p65/RELA at approximately 65 kDa. The expected band size for NF-kB p65/RELA is at 60 kDa.



Treating SNK-6 cells constitutively expressing LMP1 for 1 h with the following selective inhibitors of proteins in the MAPK/NF-kappaB pathway down-regulated IL-2Ralpha: a 0.1 uM SB590885 (B-Raf inhibitor), b 20 uM PD98059 (ERK inhibitor), c 10 uM SB203580 (p38 inhibitor), d 20 uM SP600125 (JNK inhibitor), or e 100 uM pyrrolidine dithiocarbamate (PDTC, NF-kappaB inhibitor) Index in PubMed under a CC BY license. PMID: 30340635



LMP1 up-regulated IL-2Ralpha expression through the MAPK/NF-kappaB pathway in NK-92 cells. a NK-92 cells transduced with LMP1-encoding lentivirus led to higher levels of p-Raf-B, p-p38, p-JNK, p-ERK, and p65 than transduction with NC lentivirus. b – f NK-92 cells transduced with LMP1-encoding lentivirus were treated for 1 h with the following selective inhibitors of proteins in the MAPK/NF-kappaB pathway, leading to IL-2Ralpha down-regulation: b 0.1 uM SB590885 (B-Raf inhibitor), c 20 uM PD98059 (ERK inhibitor), d 10 uM SB203580 (p38 inhibitor), e 20 uM SP600125 (JNK inhibitor), and f 100 uM pyrrolidine dithiocarbamate (PDTC; NF-kappaB inhibitor) Index in PubMed under a CC BY license. PMID: 30340635

46 Publications Citing This Product

1. PubMed ID: 34125329, Tibatan MA,Önay Uçar E.Long non-coding RNA NKILA regulates expression of HSP90alpha, NF-kappaB and beta-catenin proteins in the MCF-7 breast cancer cell line.Mol Biol Rep.2021 Jun 14.doi:10.1007/s11033-021-06482-y.Epub ahead of print.PMID:34125329.

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2. PubMed ID: 33602046, Lv Q,Xia Q,Li A,Wang Z. The Potential Role of IL1RAP on Tumor Microenvironment-Related Inflammatory Factors in Stomach Adenocarcinoma. Technol Cancer Res Treat. 2021 Jan-Dec;20: 1533033821995282.doi:10.1177/1533033821995282. PMID: 33602046.

3. PubMed ID: 26097529, Fan Z, Yao J, Li Y, Hu X, Shao H, Tian X. Int J Clin Exp Pathol. 2015 Apr 1;8(4):3451-9. Ecollection 2015. Anti-Inflammatory And Antioxidant Effects Of Curcumin On Acute Lung Injury In A Rodent Model Of Intestinal Ischemia Reperfusion By Inhibitin...

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