

## Anti-NF-kB p65/RELA Antibody Picoband™

Catalog Number: PB9324

### About Rela

Transcription factor p65, also known as NFKB3 or NF-kB p65, is a protein encoded by the RELA gene. 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.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-NF-kB p65/RELA Antibody Picoband™  |
| Reactive Species     | Mouse, Rat  |
| Description          | Boster Bio Anti-NF-kB p65/RELA Antibody Picoband™ catalog # PB9324. Tested in WB applications. This antibody reacts with Mouse, Rat.  |
| Application          | WB  |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .  |
| 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           | Q04207  |

### Technical Details

|                               |  |
|-------------------------------|--|
| Immunogen                     | E.coli-derived mouse NF-kB p65 recombinant protein (Position: D291-Q479). Mouse NF-kB p65 shares 77% amino acid (aa) sequence identity with human NF-kB p65. |
| Predicted Reactive Species    | Bovine   |
| 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 | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Mouse, Rat</p> |

## Anti-NF-kB p65/RELA Antibody Picoband™ (PB9324) Images

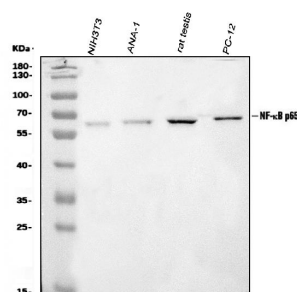


Figure 1. Western blot analysis of NF-kB p65/RELA using anti-NF-kB p65/RELA antibody (PB9324).

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: mouse NIH/3T3 whole cell lysates,

Lane 2: mouse ANA-1 whole cell lysates.

Lane 3: rat testis tissue lysates.

Lane 4: rat PC-12 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 # PB9324) 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.

## 54 Publications Citing This Product

1. PubMed ID: 31026730, Xin X, Yao D, Zhang K, Han S, Liu D, Wang H, Liu X, Li G, Huang J, Wang J. Protective effects of Rosavin on bleomycin-induced pulmonary fibrosis via suppressing fibrotic and inflammatory signaling pathways in mice. *Biomed Pharmacother*. 2019 Jul;115:108870. doi:10.1016/j.biopha.2019.108870. Epub 2019 Apr 23. PMID:31026730.
2. PubMed ID: 34225736, Li HN, Yang QQ, Wang WT, Tian X, Feng F, Zhang ST, Xia YT, Wang JX, Zou YW, Wang JY, Zeng XY. Red nucleus IL-33 facilitates the early development of mononeuropathic pain in male rats by inducing TNF-alpha through activating ERK, p38 MAPK, and JAK2/STAT3. *J Neuroinflammation*. 2021 Jul 5;18(1):150. doi:10.1186/s12974-021-02198-9. PMID:34225736; PMCID:PMC8258957.
3. 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.

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