

## Rabbit NF-kappaB p6/RELA Polyclonal Antibody | anti-RELA antibody

Anti-NF-kappaB p6/RELA Antibody Picoband

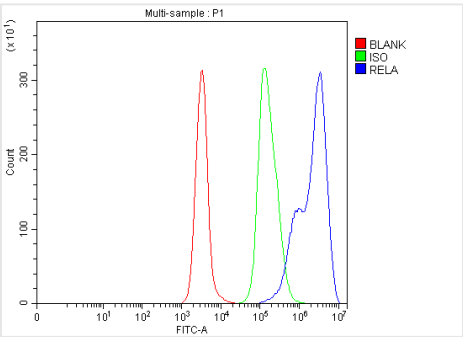
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                          |
|-----------|--------|-------------------|-------------------------------------------------------|
| AAA126978 | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

NF-kappaB p6/RELA; Polyclonal Antibody; Anti-NF-kappaB p6/RELA Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1\_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-RELA antibody

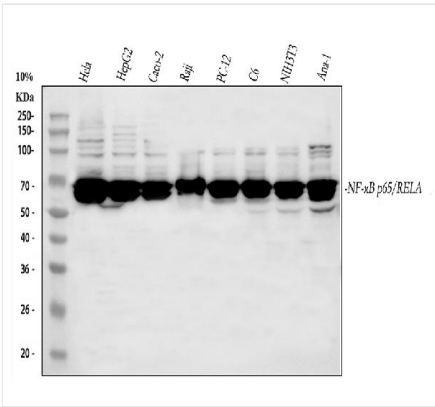
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                         |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                                                     |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                                                            |
| Specificity                                    | Expressed in all tissues.                                                                                                                                                                                                                                                                                                                                      |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                   |
| Form/Format                                    | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.                                                                                                                                                                                                                                                                                   |
| Applicable Applications for anti-RELA antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                                                                                                                                                            |
| Immunogen                                      | E coli-derived human NF-kappaB p65/RELA recombinant protein (Position: Q132-S551). Human RELA shares 85.8% amino acid (aa) sequence identity with mouse RELA.                                                                                                                                                                                                  |
| Subcellular Localization                       | Cytoplasm, Nucleus                                                                                                                                                                                                                                                                                                                                             |
| Reconstitution                                 | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                                                                                                                                                                       |
| Cross Reactivity                               | No cross reactivity with other proteins.                                                                                                                                                                                                                                                                                                                       |
| Protein Function                               | Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway. |
| Preparation and Storage                        | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.                                                                                                                                          |



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of Daudi cells using anti-NF-kappaB P65/RELA antibody (AAA126978). Overlay histogram showing Daudi cells stained with AAA126978 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NF-kappaB P65/RELA Antibody (AAA126978, 1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of NF-kappaB P65/RELA using anti-NF-kappaB P65/RELA antibody (AAA126978). 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, Lane 5: rat PC-12 whole cell lysates, Lane 6: rat C6 whole cell tissue lysates, Lane 7: mouse NIH/3T3 whole cell lysates, Lane 8: mouse Ana-1 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-kappaB P65/RELA antigen affinity purified polyclonal antibody (#AAA126978) at 0.25ug/mL overnight at 4 degree 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 with Tanon 5200 system. A specific band was detected for NF-kappaB P65/RELA at approximately 65 kDa. The expected band size for NF-kappaB P65/RELA is at 60 kDa.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-RELA antibody | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product Categories/Family for anti-RELA antibody   | Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| References                                         | 1. Nolan GP, Ghosh S, Liou HC, Tempst P, Baltimore D (April 1991). "DNA binding and I kappa B inhibition of the cloned p65 subunit of NF-kappa B, a rel-related polypeptide". Cell 64 (5): 961-9.2. Lim, C.-A., Yao, F., Wong, J. J.-Y., George, J., Xu, H., Chiu, K. P., Sung, W.-K., Lipovich, L., Vega, V. B., Chen, J., Shahab, A., Zhao, X. D., Hibberd, M., Wei, C.-L., Lim, B., Ng, H.-H., Ruan, Y., Chin, K.-C. Genome-wide mapping of RELA(p65) binding identifies E2F1 as a transcriptional activator recruited by NF-kappa-B upon TLR4 activation. Molec. Cell 27: 622-635, 2007.3. Mazzeo, A., Aguenouz, M., Messina, C., Vita, G. Immunolocalization and activation of transcription factor nuclear factor kappa-B in dysimmune neuropathies and familial amyloidotic polyneuropathy. Arch. Neurol. 61: 1097-1102, 2004. |

NCBI AND UNIPROT INFORMATION

|                           |                        |
|---------------------------|------------------------|
| NCBI GI #                 | 223468681              |
| NCBI GeneID               | 5970                   |
| NCBI Accession #          | NP_001138610.1         |
| NCBI GenBank Nucleotide # | NM_001145138.1         |
| UniProt Accession #       | Q04206; Q6GTV1; Q6SLK1 |
| Molecular Weight          | 60,219 Da              |

|                                  |                                                                                                                                                             |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Official Full Name          | transcription factor p65 isoform 2                                                                                                                          |
| NCBI Official Synonym Full Names | v-rel reticuloendotheliosis viral oncogene homolog A (avian)                                                                                                |
| NCBI Official Symbol             | RELA                                                                                                                                                        |
| NCBI Official Synonym Symbols    | p65; NFKB3                                                                                                                                                  |
| NCBI Protein Information         | transcription factor p65; NF-kappa-B p65delta3; nuclear factor NF-kappa-B p65 subunit; nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 |
| UniProt Protein Name             | Transcription factor p65                                                                                                                                    |
| UniProt Gene Name                | <b>RELA</b>                                                                                                                                                 |
| UniProt Synonym Gene Names       | NFKB3                                                                                                                                                       |
| UniProt Entry Name               | TF65_HUMAN                                                                                                                                                  |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/polyclonal/nf-kappab-p6-rela-antibody-flow-cytometry-western-blot-elisa/126978>