

## Rabbit NF-κB p65/RELA Polyclonal Antibody | anti-RELA antibody

Anti-NF-κB p65/RELA Antibody

|                               |                       |                                        |                                                                  |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA124896</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

NF-κB p65/RELA; Polyclonal Antibody; Anti-NF-κB p65/RELA Antibody; Transcription factor p65; Nuclear factor NF-κappa-B p65 subunit; Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3; RELA; NFKB3; V-rel avian reticuloendotheliosis viral oncogene homolog A; anti-RELA antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                        |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                             |
| Clonality                                      | Polyclonal                                                                                                                                                                                                    |
| Isotype                                        | IgG                                                                                                                                                                                                           |
| Specificity                                    | No cross reactivity with other proteins.                                                                                                                                                                      |
| Purity/Purification                            | Immunogen Affinity Purified                                                                                                                                                                                   |
| Form/Format                                    | Lyophilized                                                                                                                                                                                                   |
| Sequence Length                                | 537                                                                                                                                                                                                           |
| Applicable Applications for anti-RELA antibody | ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                           |
| Immunogen                                      | E Coli-derived human NF-κB p65 recombinant protein (Position: F99-S551).                                                                                                                                      |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                          |
| Relevant Detection Systems                     | It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.                                         |
| Preparation and Storage                        | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time.<br>Avoid repeated freezing and thawing. |



IHC (Immunohistochemistry)

Figure 3. IHC analysis of NF-kB p65 using anti-NF-kB p65 antibody. NF-kB p65 was detected in paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/mL rabbit anti-NF-kB p65 antibody. NF-kB p65 was detected in paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/mL rabbit anti-NF-kB p65 antibody. NF-kB p65 was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NF-kB p65 antibody. NF-kB p65 was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NF-kB p65 antibody. NF-kB p65 was detected in paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NF-kB p65 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of NF-kB p65 using anti-NF-kB p65 antibody. 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 50ug of sample under reducing conditions. Lane 1: rat spleen tissue lysates, Lane 2: rat lung tissue lysates, Lane 3: rat kidney tissue lysates, Lane 4: rat testis tissue lysates, Lane 5: mouse spleen tissue lysates, Lane 6: mouse lung tissue lysates, Lane 7: mouse testis tissue lysates, Lane 8: mouse NIH3T3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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 antigen affinity purified polyclonal antibody at 0.5 ug/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 1:10000 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-kB p65 at approximately 65KD. The expected band size for NF-kB p65 is at 65KD.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-RELA antibody | <p>Description: Rabbit IgG polyclonal antibody for NF-kB p65 detection. Tested with WB, IHC-P, Direct ELISA in Human; Mouse; Rat.</p> <p>Background: 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.</p> |
| References                                         | <p>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.</p>                                                                                                       |

NCBI AND UNIPROT INFORMATION

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|---------------------------|------------------------|
| NCBI GI #                 | 223468681              |
| NCBI GeneID               | 5970                   |
| NCBI Accession #          | NP_001138610.1         |
| NCBI GenBank Nucleotide # | NM_001145138.1         |
| UniProt Accession #       | Q04206; Q6GTV1; Q6SLK1 |
| Molecular Weight          | 58,807 Da              |

|                                  |                                    |
|----------------------------------|------------------------------------|
| NCBI Official Full Name          | transcription factor p65 isoform 2 |
| NCBI Official Synonym Full Names | RELA proto-oncogene, NF-kB subunit |
| NCBI Official Symbol             | RELA                               |
| NCBI Official Synonym Symbols    | p65; NFKB3                         |
| NCBI Protein Information         | transcription factor p65           |
| UniProt Protein Name             | Transcription factor p65           |
| UniProt Gene Name                | <b>RELA</b>                        |
| UniProt Synonym Gene Names       | NFKB3                              |

**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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