NF-κB p65 Polyclonal ANTIBODY

Catalog Number: 10745-1-AP

Basic Information

- **Catalog Number:** 10745-1-AP
- **Size:** 78 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG1199
- **GenBank Accession Number:** BC011603
- **Gene ID:** 5970
- **Full Name:** v-rel reticuloendotheliosis viral oncogene homolog A (avian)
- **Calculated MW:** 65 kDa
- **Observed MW:** 65 kDa

Recommended Dilutions:
- WB: 1:1000-1:4000
- IP: 0.5-4.0 ug for IP and 1:500-1:2000 for WB
- IHC: 1:300-1:300
- IF: 1:50-1:500

Applications

- **Tested Applications:** FC, IF, IHC, IP, WB, ELISA
- **Cited Applications:** chIP, IF, IHC, IP, WB
- **Species Specificity:** human, mouse, rat, pig
- **Cited Species:** A. sphaerocephala Krasch, CHICKEN, dog, hamster, hamsters, human, mouse, rat, swine

Note- IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, an antigen retrieval may be performed with citrate buffer pH 6.0

- **Positive Controls:**
  - WB: HEK-293 cells, mouse liver tissue, MCF-7 cells, A431 cells, K-562 cells, NIH/3T3 cells, Jurkat cells, HeLa cells, mouse lung tissue, rat lung tissue
  - IP: HeLa cells
  - IHC: human breast cancer tissue, human liver cancer tissue, human stomach tissue, mouse heart tissue, mouse kidney tissue
  - IF: HepG2 cells

Background Information

Nuclear factor-κB (NF-κB) is a sequence-specific DNA-binding protein complex which regulates the expression of viral genomes, including the human immunodeficiency virus, and a variety of cellular genes, particularly those involved in immune and inflammatory responses. The members of the NF-κB family in mammalian cells include the proto-oncogene c-Rel, p50/p105 (NFκB1), p65 (RelA), p52/p100 (NFκB2), and RelB. All of these proteins share a conserved 300-amino acid region known as the Rel homology domain which is responsible for DNA binding, dimerization, and nuclear translocation of NF-κB. The p65 subunit is a major component of NF-κB complexes and is responsible for trans-activation. NF-κB heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF-κB p65/p65 complex appears to be involved in invasion-mediated activation of IL-8 expression. The inhibitory effect of IkB upon NF-κB in the cytoplasm is exerted primarily through the interaction with p65. p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-κB complex. It associates with chromatin at the NF-κB promoter region via association with DDX1. This antibody is a rabbit polyclonal antibody raised against residues near the N terminus of human RELA.

Notable Publications

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Storage

- **Storage:** Store at -20ºC. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting:** is unnecessary for -20ºC storage

For technical support and original validation data for this product please contact:

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Various lysates were subjected to SDS PAGE followed by western blot with 10745-1-AP (p65, RELA antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

WB result of RELA, p65 antibody (10745-1-AP) with si-Control and si-RELA, p65 transfected HeLa cells.

Various lysates were subjected to SDS PAGE followed by western blot with 10745-1-AP (NF-κB p65 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.


Immunohistochemical analysis of paraffin-embedded human breast cancer using 10745-1-AP (p65 antibody) at dilution of 1:100 (under 40x lens).

Immunofluorescent analysis of (70% Ethanol) fixed HepG2 cells using 10745-1-AP (p65, RELA antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)

100k cells were stained with 0.2ug p65; RELA antibody (10745-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.