For Research Use Only

p65; RELA 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

GeneID (NCBI): 5970

Calculated MW: 65 kDa

Observed MW: 65 kDa

Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 μg for IP and 1:500-1:2000 for WB

IHC: 1:300-1:500

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA

Cited Applications: chIP, IF, IHC, IP, WB

Species Specificity:

human, mouse, rat, swine

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

Positive Controls:

WB: HEK-293 cells, mouse lung tissue, MCF-7 cells, A549 cells, NIH/3T3 cells, Jurkat cells, HeLa cells, mouse liver tissue

IP: HeLa cells

IHC: human breast cancer tissue, human stomach tissue, human liver cancer tissue

IF: HepG2 cells

Background Information

Nuclear factor κ B (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 IκB 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

Store at -20°C. Stable for one year after shipment.

Storage Buffer: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

E: proteintech@ptglab.com

W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
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, 1:500) with si-Control and si-RELA, p65 transfected HeLa cells.

IP Result of anti-p65 (IP: 10745-1-AP, 3ug; Detection: 10745-1-AP 1:1000) with HeLa cells lysate 500 ug.

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 ( -20° 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) with dilution 1:1000.

1X10^6 HeLa 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.