

For Research Use Only

# NF- $\kappa$ B p65 Polyclonal antibody

Catalog Number:10745-1-AP

Featured Product

1564 Publications



## Basic Information

**Catalog Number:**

10745-1-AP

**Concentration:**

750 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1199

**GenBank Accession Number:**

BC011603

**GeneID (NCBI):**

5970

**UNIPROT ID:**

Q04206

**Full Name:**

v-rel reticuloendotheliosis viral oncogene homolog A (avian)

**Calculated MW:**

65 kDa

**Observed MW:**

65 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IHC, IF, IP, CoIP, ChIP, ELISA

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat, rabbit, monkey, chicken, hamster, sheep, goat, fish

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

**Positive Controls:**

**WB:** A431 cells, Jurkat cells, MCF-7 cells, K-562 cells, Hek-293 cells, HeLa cells, Raji cells, NIH/3T3 cells

**IP:** HeLa cells,

**IHC:** human breast cancer tissue, human colon tissue, human liver cancer tissue, human stomach tissue, mouse colon tissue

**IF/ICC:** HepG2 cells, TNF alpha treated HT-1080 cells

## Background Information

Nuclear factor  $\kappa$ B (NF- $\kappa$ B) 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- $\kappa$ B family in mammalian cells include the proto-oncogene c-Rel, p50/p105 (NF $\kappa$ B1), p65 (RelA), p52/p100 (NF $\kappa$ B2), 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- $\kappa$ B. The p65 subunit is a major component of NF- $\kappa$ B complexes and is responsible for trans-activation. NF- $\kappa$ B heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF- $\kappa$ B p65-p65 complex appears to be involved in invasion-mediated activation of IL-8 expression. The inhibitory effect of I $\kappa$ B upon NF- $\kappa$ B 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- $\kappa$ B complex. It associates with chromatin at the NF- $\kappa$ B 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

Author	Pubmed ID	Journal	Application
Chang Liu	36230117	Foods	WB
Ji Xing	36230734	Cancers (Basel)	WB
Yanliang Wu	34601083	J Ethnopharmacol	WB

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

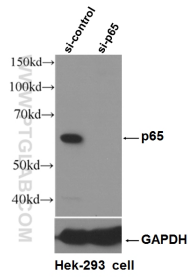
T: 4006900926

E: Proteintech-CN@ptglab.com

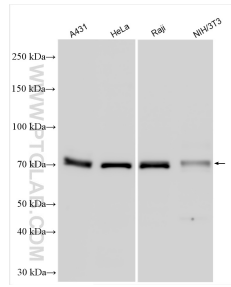
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

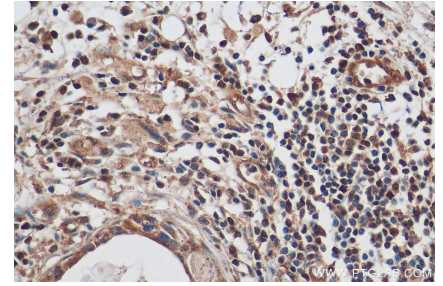
## Selected Validation Data



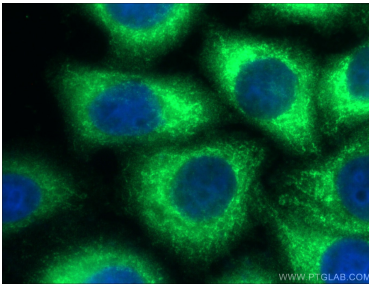
WB result of RELA, p65 antibody (10745-1-AP, 1:500) with si-Control and si-RELA, p65 transfected HeLa cells.



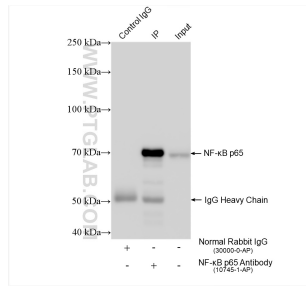
Various lysates were subjected to SDS PAGE followed by western blot with 10745-1-AP (NF-κB p65 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



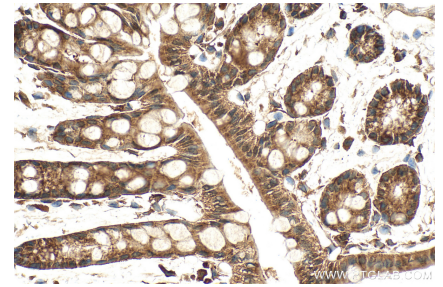
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10745-1-AP (NF-κB p65 antibody) at dilution of 1:200 (under 0x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C 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).



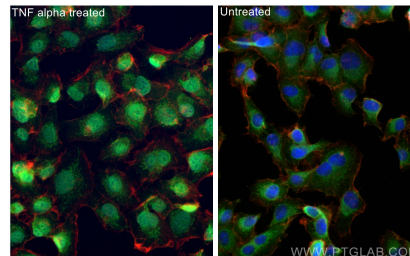
IP result of anti-NF-κB p65 (IP:10745-1-AP, 4ug; Detection:10745-1-AP 1:6000) with HeLa cells lysate 1280 ug.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 10745-1-AP (NF-κB p65 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 10745-1-AP (NF-κB p65 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



Immunofluorescent analysis of (4% PFA) fixed TNF alpha treated HT-1080 cells using NF-κB p65 antibody (10745-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).