

For Research Use Only

# NF-κB p65 Polyclonal antibody

Catalog Number: 10745-1-AP

Featured Product

1212 Publications



## Basic Information

### Catalog Number:

10745-1-AP

### Size:

150ul, Concentration: 650 µg/ml by Nanodrop;

### 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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IF, FC, IHC, ELISA

### Cited Applications:

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

### Species Specificity:

human, mouse, rat

### Cited Species:

human, goat, CHICKEN, rat, mouse, monkey, rabbit, fish, hamster, pig

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

**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 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

Author	Pubmed ID	Journal	Application
Ji Xing	36230734	Cancers (Basel)	WB
Chang Liu	36230117	Foods	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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

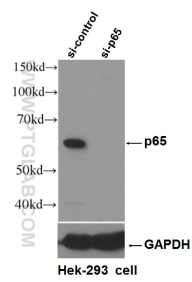
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

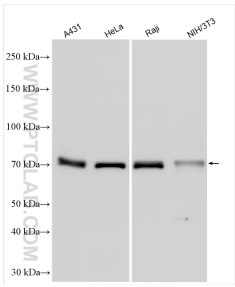
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

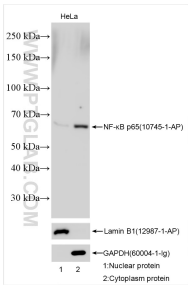
Selected Validation Data



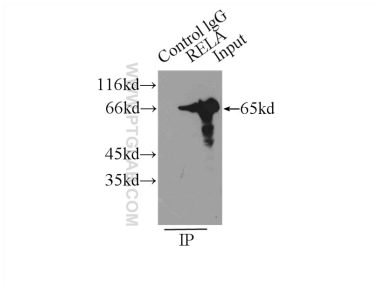
WB result of RELA, p65 antibody (10745-1-AP, 1:500) with si-Control and si-RELA,p65 transfected HeLa cells.



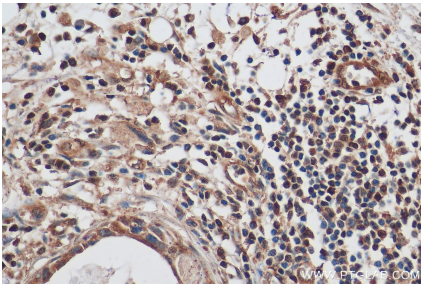
Various lysates were subjected to SDS PAGE followed by western blot with 10745-1-AP (NF-κB p65 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



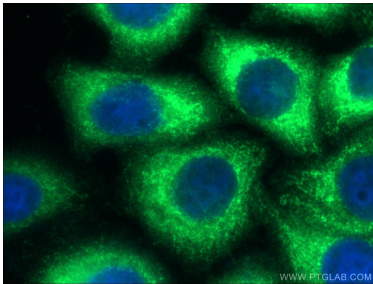
HeLa nuclear fraction and cytoplasmic fraction were subjected to SDS PAGE separately, followed by western blot with 10745-1-AP (NF-κB p65 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. The membrane was stripped, reblotted with lamin B1 (12987-1-AP) & GAPDH (60004-1-Ig) antibodies as the loading control.



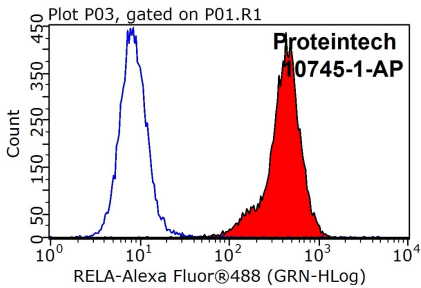
IP result of anti-NF-κB p65 (IP:10745-1-AP, 3ug; Detection:10745-1-AP 1:1000) with HeLa cells lysate 5000ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10745-1-AP (NF-κB p65 antibody) at dilution of 1:200 (under Ox 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).



1X10<sup>6</sup> 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.