

For Research Use Only

# NF- $\kappa$ B p65 Polyclonal antibody

Catalog Number: 10745-1-AP

Featured Product

876 Publications



## Basic Information

<b>Catalog Number:</b> 10745-1-AP	<b>GenBank Accession Number:</b> BC011603	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 520 $\mu$ g/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5970	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> v-rel reticuloendotheliosis viral oncogene homolog A (avian)	<b>IHC 1:50-1:500</b> <b>IF 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 65 kDa	
<b>Immunogen Catalog Number:</b> AG1199	<b>Observed MW:</b> 65 kDa	

## Applications

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

**Cited Applications:**  
ChIP, CoIP, IF, IHC, IP, WB

**Species Specificity:**  
human

**Cited Species:**  
Bombyx mori, bovine, canine, chicken, fish, hamster, human, monkey, 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, Jurkat cells, MCF-7 cells, K-562 cells, Hek-293 cells, HeLa cells

**IP:** HeLa cells,

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

**IF:** HepG2 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 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- $\kappa$ 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
Ji Xing	36230734	Cancers (Basel)	WB
Chang Liu	36230117	Foods	WB
Yanliang Wu	34601083	J Ethnopharmacol	WB

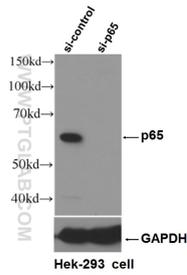
## Storage

**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

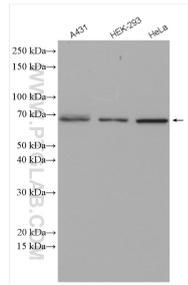
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

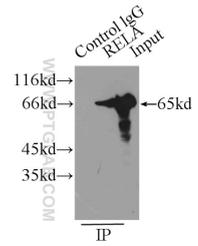
## Selected Validation Data



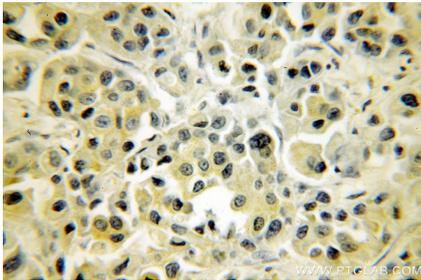
WB result of RELA, p65 antibody (10745-1-AP, 1:500) with si-Control and si-RELA, p65 transfected HeLa cells.



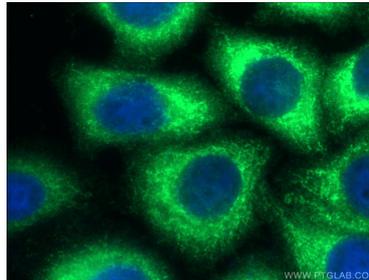
Various lysates were subjected to SDS PAGE followed by western blot with 10745-1-AP (NF- $\kappa$ B p65 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



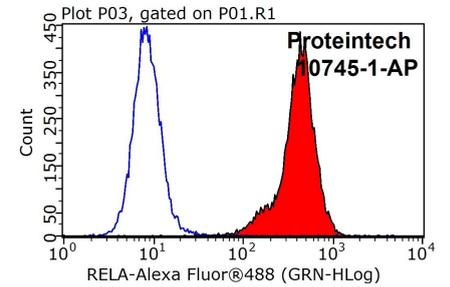
IP Result of anti-p65 (IP:10745-1-AP, 3 $\mu$ g; Detection:10745-1-AP 1:1000) with HeLa cells lysate 5000 $\mu$ g.



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°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).



$1 \times 10^6$  HeLa cells were stained with 0.2 $\mu$ g 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.