

For Research Use Only

NF- κ B p65 Polyclonal antibody

Catalog Number: 10745-1-AP

Featured Product

453 Publications



Basic Information

Catalog Number:

10745-1-AP

Size:

150UL, Concentration: 520 μ g/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1199

GenBank Accession Number:

BC011603

GeneID (NCBI):

5970

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 1:1000-1:4000

IP 0.5-4.0 μ g for IP and 1:500-1:2000 for WB

IHC 1:50-1:500

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, cow, dog, hamster, hamsters, human, mouse, pig, rat

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: 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 κ B (NF- κ 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- κ B family in mammalian cells include the proto-oncogene c-Rel, p50/p105 (NF κ B1), p65 (RelA), p52/p100 (NF κ 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- κ B. The p65 subunit is a major component of NF- κ B complexes and is responsible for trans-activation. NF- κ B heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF- κ B p65-p65 complex appears to be involved in invasion-mediated activation of IL-8 expression. The inhibitory effect of I κ B upon NF- κ 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- κ B complex. It associates with chromatin at the NF- κ 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
Yongli Li	31557166	PLoS One	WB
Longlong Li	32940033	J Agric Food Chem	WB
Ming Xiong	31695759	Theranostics	IHC

Storage

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

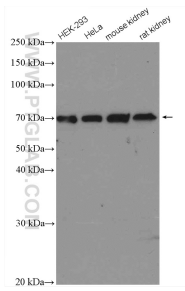
For technical support and original validation data for this product please contact:

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

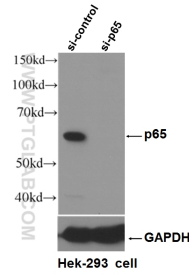
E: proteintech@ptglab.com
W: ptglab.com

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

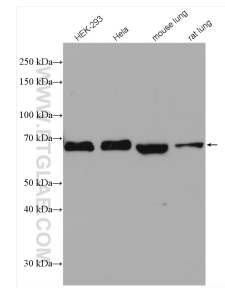
Selected Validation Data



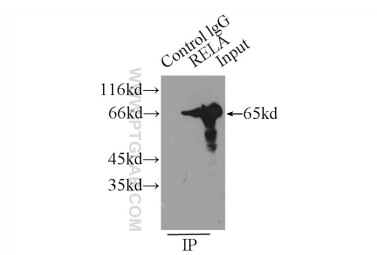
Various lysates were subjected to SDS PAGE followed by western blot with 10745-1-AP (p65; RELA antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



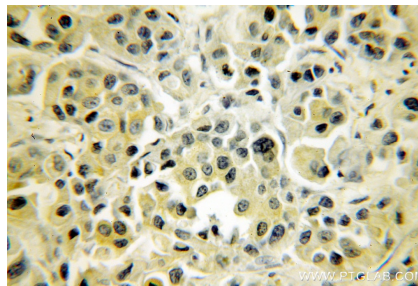
WB result of RELA, p65 antibody (10745-1-AP, 1:500) with si-Control and si-RELA, p65 transfected HeLa cells.



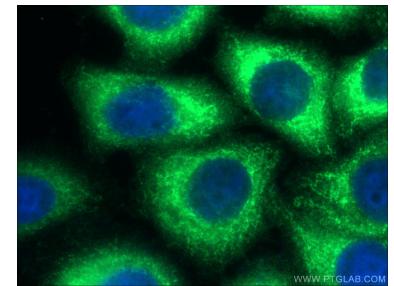
Various lysates were subjected to SDS PAGE followed by western blot with 10745-1-AP (NF- κ B p65 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



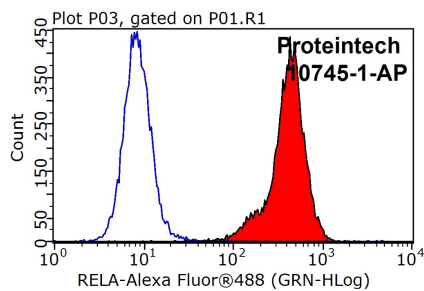
IP Result of anti-p65 (IP:10745-1-AP, 3 μ g; Detection:10745-1-AP 1:1000) with HeLa cells lysate 5000 μ g.



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 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).



1X10⁶ HeLa cells were stained with 0.2 μ 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.