

For Research Use Only

NF- κ B p65 Polyclonal antibody

Catalog Number: 10745-1-AP

Featured Product

1198 Publications



Basic Information

Catalog Number:
10745-1-AP

Size:
150ul, Concentration: 650 μ g/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 μ g 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- 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 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 |
|-------------|-----------|------------------|-------------|
| 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

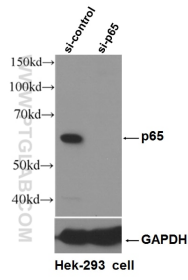
For technical support and original validation data for this product please contact:

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

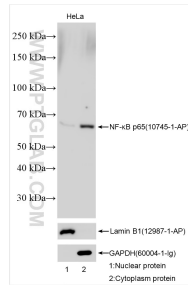
E: proteintech@ptglab.com
W: ptglab.com

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

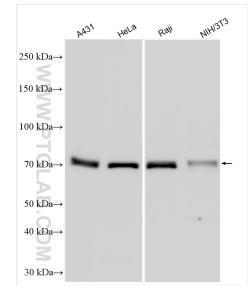
Selected Validation Data



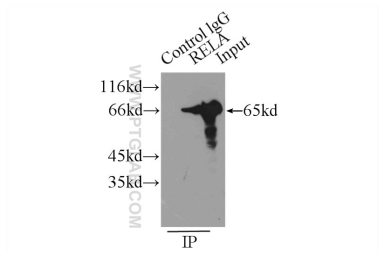
WB result of RELA, p65 antibody (10745-1-AP, 1:500) with si-Control and si-RELA, p65 transfected HeLa cells.



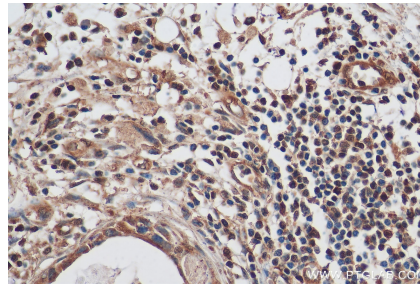
HeLa nuclear fraction and cytoplasmic fraction were subjected to SDS PAGE separately, followed by western blot with 10745-1-AP (NF-κB p65 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. The membrane was stripped, reblotted with lamin B1 (12987-1-AP) & GAPDH (60004-1-Ig) antibodies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



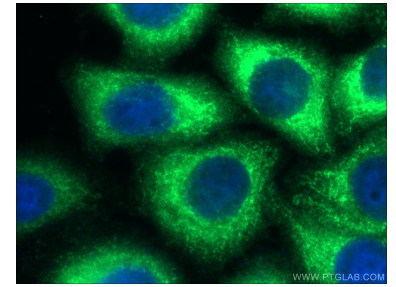
Various lysates were subjected to SDS PAGE followed by western blot with 10745-1-AP (NF-κB p65 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



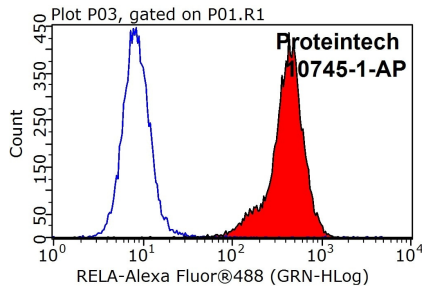
IP result of anti-NF-κB p65 (IP:10745-1-AP, 3ug; Detection:10745-1-AP 1:1000) with HeLa cells lysate 5000ug.



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



1X10⁶ 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.