

For Research Use Only

# NF- $\kappa$ B p65 Monoclonal antibody

Catalog Number: 66535-1-Ig

Featured Product

263 Publications



## Basic Information

Catalog Number:

66535-1-Ig

Concentration:

2000  $\mu$ g/ml

Source:

Mouse

Isotype:

IgG1

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:

Protein A purification

CloneNo.:

1B12D11

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:150-1:600

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, CoIP, ChIP, RIP

Species Specificity:

Human

Cited Species:

human, pig, chicken, bovine

**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: HeLa cells, HEK-293 cells, MOLT-4 cells, Jurkat cells, Raji cells

IHC: human breast cancer tissue,

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenbin Pei	34650433	Front Pharmacol	WB, IF
Jingying Liu	34646128	Front Aging Neurosci	WB
Zhuo Wei	31561855	Biochem Biophys Res Commun	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:

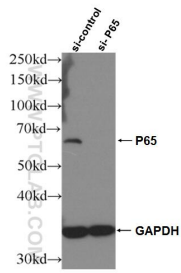
T: 4006900926

E: Proteintech-CN@ptglab.com

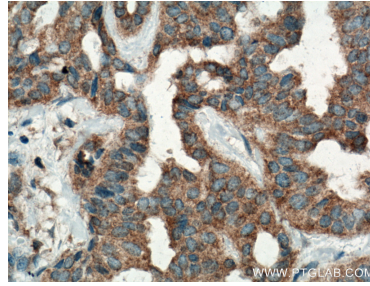
W: ptgcn.com

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

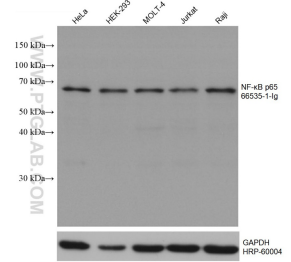
## Selected Validation Data



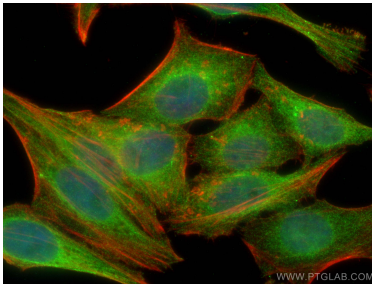
WB result of p65; RELA antibody (66535-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p65; RELA transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66535-1-Ig (p65; RELA antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66535-1-Ig (NF- $\kappa$ B p65 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NF- $\kappa$ B p65 antibody (66535-1-Ig, Clone: 1B12D11) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).