

NF- $\kappa$ B p65 Monoclonal antibody

Catalog Number: 66535-1-Ig

Featured Product

196 Publications

## Basic Information

## Catalog Number:

66535-1-Ig

## Size:

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:

IHC, WB, ELISA

## Cited Applications:

WB, IF, RIP, IHC, CoIP, ChIP

## Species Specificity:

Human

## Cited Species:

human, chicken, pig, 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, NIH/3T3 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

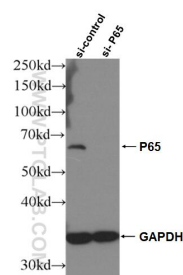
For technical support and original validation data for this product please contact:

T: 4006900926

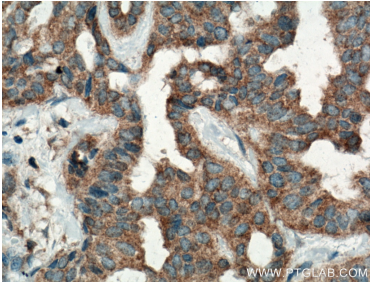
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

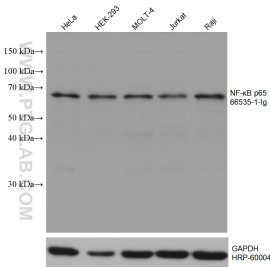
Selected Validation Data



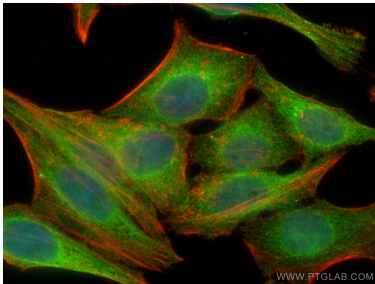
WB result of p65; RELA antibody (66535-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p65; RELA transfected HEK-293 cells.



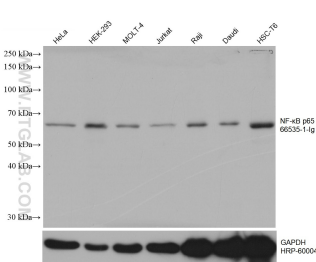
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66535-1-Ig (p65; RELA antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



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 AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).



Various lysates were subjected to SDS PAGE followed by western blot with 66535-1-Ig (NF- $\kappa$ B p65 antibody) at dilution of 1:5000 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.