

For Research Use Only

NF- κ B p65 Recombinant antibody

Catalog Number: 80979-1-RR

Featured Product

95 Publications



Basic Information

Catalog Number:

80979-1-RR

Concentration:

1000 ug/ml

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:

Protein A purification

CloneNo.:

4C7

Recommended Dilutions:

WB: 1:5000-1:40000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total
protein lysate

IF/ICC: 1:125-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a
100 μ l suspension

ChIP: 1:10-1:100

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), IP, ChIP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig

Positive Controls:

WB : HeLa cells, HEK-293 cells, MCF-7 cells, MOLT-4
cells, Jurkat cells, Raji cells, NIH/3T3 cells, HSC-T6
cells

IP : HeLa cells,

IF/ICC : HepG2 cells, TNF alpha treated HT-1080 cells

FC (Intra) : HepG2 cells,

ChIP : hTNF- α (30 ng/ml, 1 h) HeLa 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
Ting Xu	36079919	Nutrients	WB
Yu Xiao	36119099	Front Immunol	IF
Chao Jia	36071864	Oxid Med Cell Longev	WB, IF

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:

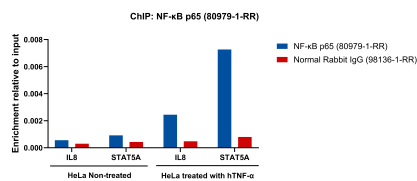
T: 4006900926

E: Proteintech-CN@ptglab.com

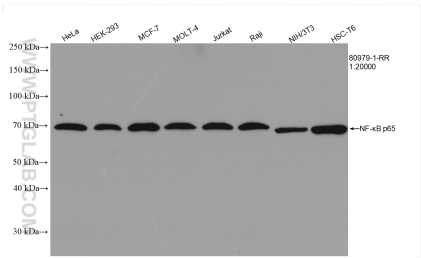
W: ptgcn.com

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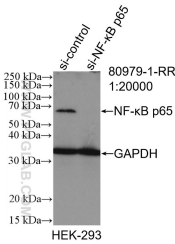
Selected Validation Data



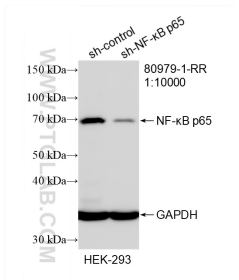
Chromatin was prepared from HeLa cells either non-treated or treated with hTNF-α (30 ng/ml, 1 h). Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 μg of cross-linked chromatin, 5 μg of NF-κB p65 (80979-1-RR) or 5 μg of Normal Rabbit IgG (98136-1-RR), and 20 μl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified by real-time PCR.



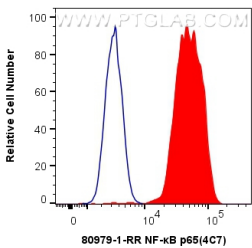
Various lysates were subjected to SDS PAGE followed by western blot with 80979-1-RR (NF-κB p65 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



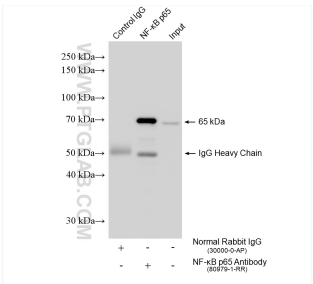
WB result of NF-κB p65 antibody (80979-1-RR; 1:13000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NF-κB p65 transfected HEK-293 cells.



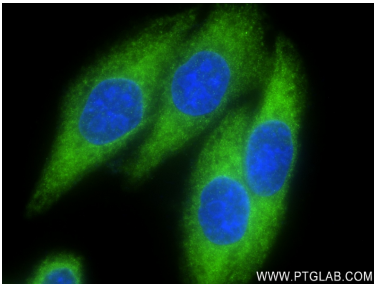
WB result of NF-κB p65 antibody (80979-1-RR; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NF-κB p65 transfected HEK-293 cells.



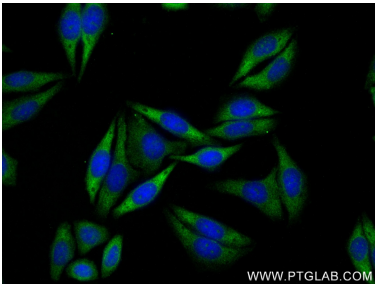
1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human NF-κB p65 (80979-1-RR, Clone:4C7) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



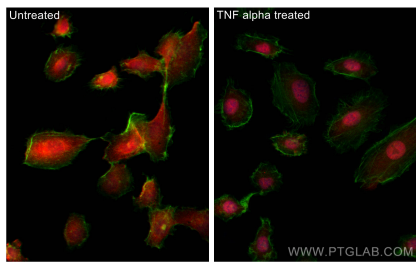
IP result of anti-NF-κB p65 (IP:80979-1-RR, 4ug; Detection:80979-1-RR 1:4000) with HeLa cells lysate 1085 ug.



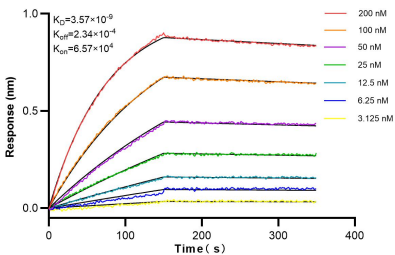
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using NF-κB p65 antibody (80979-1-RR, Clone: 4C7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using NF-κB p65 antibody (80979-1-RR, Clone: 4C7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed TNF alpha treated HT-1080 cells using NF-κB p65 antibody (80979-1-RR, Clone: 4C7) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-Phalloidin (green).



Biolayer interferometry (BLI) kinetic assays of 80979-1-RR against Human NF- κ B p65 were performed. The affinity constant is 3.57 nM.