

For Research Use Only

# NF- $\kappa$ B p65 Recombinant antibody, PBS Only

Catalog Number: 80979-1-PBS

Featured Product



## Basic Information

<b>Catalog Number:</b> 80979-1-PBS	<b>GenBank Accession Number:</b> BC011603	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5970	<b>CloneNo.:</b> 4C7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q04206	
<b>Isotype:</b> IgG	<b>Full Name:</b> v-rel reticuloendotheliosis viral oncogene homolog A (avian)	
<b>Immunogen Catalog Number:</b> AG1199	<b>Calculated MW:</b> 65 kDa	
	<b>Observed MW:</b> 65 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, FC (Intra), IP, ChIP, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## 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 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. This antibody is a rabbit polyclonal antibody raised against residues near the N terminus of human RELA.

## Storage

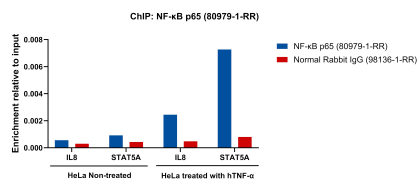
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

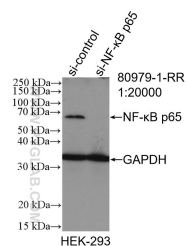
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

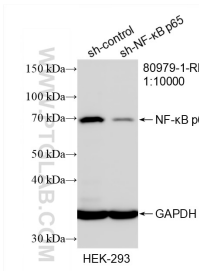
Selected Validation Data



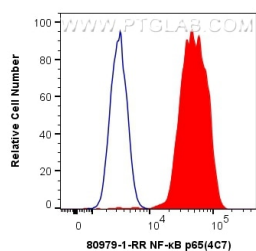
Chromatin was prepared from HeLa cells either non-treated or treated with hTNF-α (30 ng/ml, 1 h). Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 μg of cross-linked chromatin, 5 μg of NF-κB p65 (80979-1-RR) or 5 μg of Normal Rabbit IgG (98136-1-RR), and 20 μl of Protein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



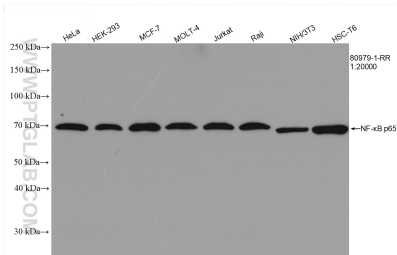
WB result of NF-κB p65 antibody (80979-1-RR; 1:13000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NF-κB p65 transfected HEK-293 cells. This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



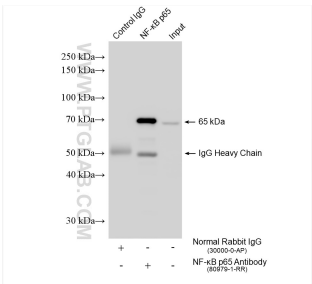
WB result of NF-κB p65 antibody (80979-1-RR; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NF-κB p65 transfected HEK-293 cells. This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



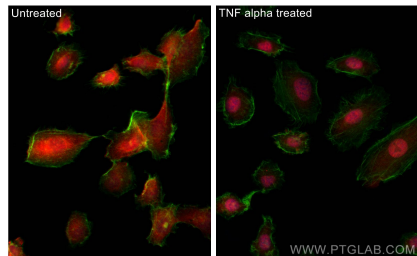
1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug Anti-Human NF-κB p65 (80979-1-RR, Clone:4C7) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



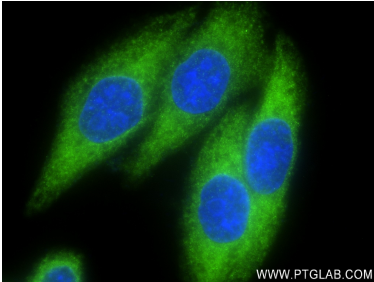
Various lysates were subjected to SDS PAGE followed by western blot with 80979-1-RR (NF-κB p65 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



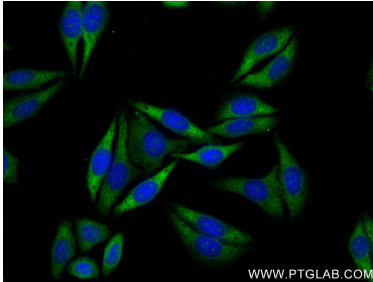
IP result of anti-NF-κB p65 (IP:80979-1-RR, 4ug; Detection:80979-1-RR 1:4000) with HeLa cells lysate 1085 ug. This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



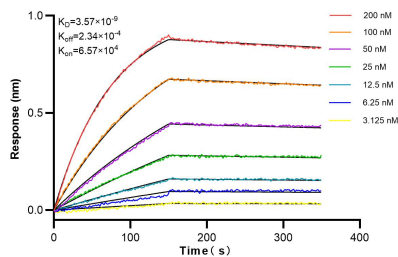
Immunofluorescent analysis of (4% PFA) fixed TNF alpha treated HT-1080 cells using NF-κB p65 antibody (80979-1-RR, Clone: 4C7 ) at dilution of 1:400 and Coralite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-Phalloidin (green). This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



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