

For Research Use Only

NF- κ B p65 Recombinant antibody, PBS Only

Catalog Number: 80979-1-PBS

Featured Product



Basic Information

Catalog Number:

80979-1-PBS

Size:

100ug, Concentration: 1mg/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:

Protein A purification

CloneNo.:

4C7

Applications

Tested Applications:

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

Species Specificity:

human, mouse, rat

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.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only

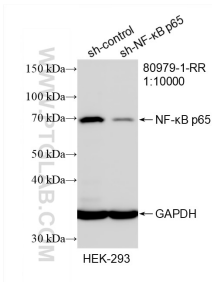
For technical support and original validation data for this product please contact:

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

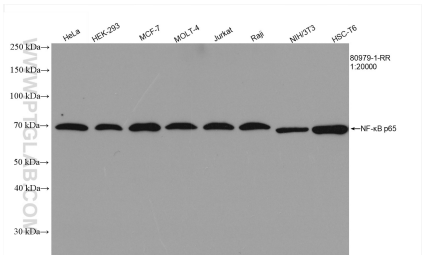
E: proteintech@ptglab.com
W: ptglab.com

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

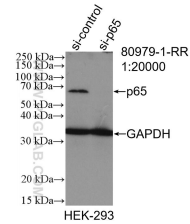
Selected Validation Data



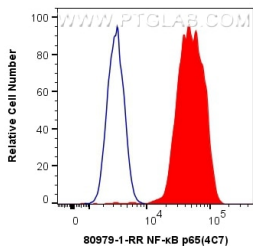
WB result of NF-κB p65 antibody (80979-1-RR; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NF-κB p65 transfected HEK-293 cells. This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



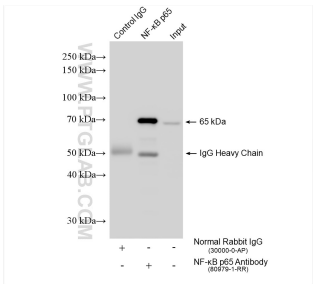
Various lysates were subjected to SDS PAGE followed by western blot with 80979-1-RR (NF-κB p65 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



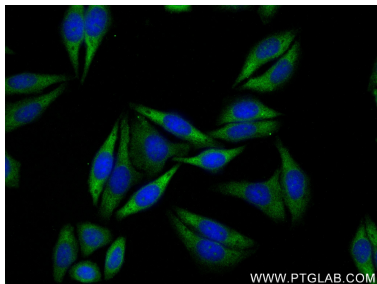
WB result of NF-κB p65 antibody (80979-1-RR; 1:13000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NF-κB p65 transfected HEK-293 cells. This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



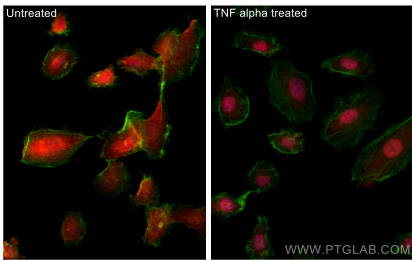
1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human NF-κB p65 (80979-1-RR, Clone:4C7) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



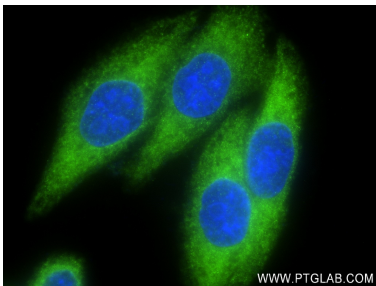
IP result of anti-NF-κB p65 (IP:80979-1-RR, 4ug; Detection:80979-1-RR 1:4000) with HeLa cells lysate 1085 ug. This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



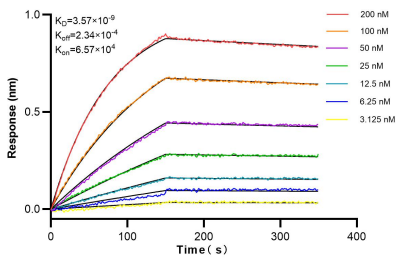
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using NF-κB p65 antibody (80979-1-RR, Clone: 4C7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 80979-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (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.



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