

For Research Use Only

# Phospho-NF- $\kappa$ B p65 (Ser536) Recombinant antibody

Catalog Number: 80379-2-RR

15 Publications



## Basic Information

Catalog Number:

80379-2-RR

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

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:

75 kDa

Purification Method:

Protein A purification

CloneNo.:

240777D9

Recommended Dilutions:

WB: 1:2000-1:10000

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a  
100  $\mu$ l suspension

## Applications

Tested Applications:

WB, FC (Intra), ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB: Calyculin A treated NIH/3T3 cells, Calyculin A  
treated HeLa cells

FC (Intra): PC-3 cells,

## Background Information

Nuclear factor  $\kappa$ B (NF- $\kappa$ B) is a collective term for a small family of dimeric transcription factors [comprising p65 (RelA) and RelB, c-Rel, p50/p105 (NF- $\kappa$ B1), and p52/p100 (NF- $\kappa$ B2)]. All NF- $\kappa$ B proteins share a Rel homology domain (RHD), which is responsible for DNA binding and dimerization. Only p65, RelB, and c-Rel contain potent transactivation domains within sequences from the C-terminal to the RHD. Exterior signals lead to the phosphorylation and degradation of the inhibitory complex I $\kappa$ B, which is modulated by the I $\kappa$ B kinase (IKK), and its degradation allows for the release of the typical NF- $\kappa$ B heterodimer, p65/p50, to translocate into the nucleus. NF- $\kappa$ B binds to its cognate DNA elements and can transcriptionally activate different target genes among which 200-500 genes have been implicated in cell survival/apoptosis, cell growth, immune response, and inflammation.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu Wang	40174339	Int Immunopharmacol	WB
Xiaochen Li	40154899	J Ethnopharmacol	WB
Jian Zhang	40045003	Cell Biol Toxicol	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:

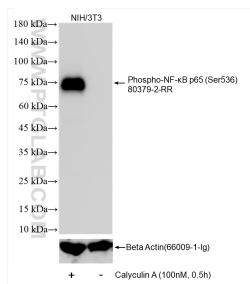
T: 4006900926

E: Proteintech-CN@ptglab.com

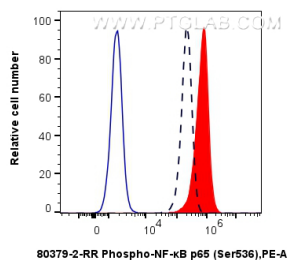
W: ptgcn.com

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## Selected Validation Data



Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80379-2-RR (Phospho-NF- $\kappa$ B p65 (Ser536) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as a loading control.



$1 \times 10^6$  untreated or Calyculin A treated PC-3 cells were intracellularly stained with 0.25  $\mu$ g Phospho-NF- $\kappa$ B p65 (Ser536) Recombinant antibody (80379-2-RR, Clone:240777D9) and PE-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.25  $\mu$ g Isotype Control (blue),  $1 \times 10^6$  untreated PC-3 cells were intracellularly stained with 0.25  $\mu$ g Phospho-NF- $\kappa$ B p65 (Ser536) Recombinant antibody (80379-2-RR, Clone:240777D9) and PE-Conjugated Goat Anti-Rabbit IgG(H+L)(black). Cells were fixed