

For Research Use Only

# Phospho-NF- $\kappa$ B p65 (Ser468) Recombinant antibody, PBS Only

Catalog Number: 82335-1-PBS



## Basic Information

**Catalog Number:**

82335-1-PBS

**Size:**

100ug, Concentration: 1mg/ml by  
Nanodrop;

**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.:**

6N1

## Applications

**Tested Applications:**

WB, FC (Intra), Indirect ELISA

**Species Specificity:**

human, mouse

## 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.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

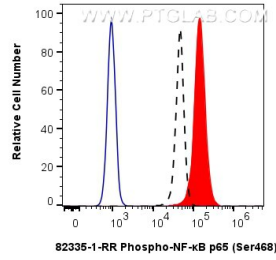
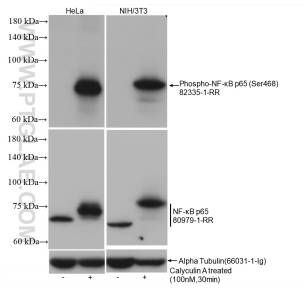
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## Selected Validation Data



Non-treated and Calyculin A treated various cells were subjected to SDS PAGE followed by western blot with 82335-1-RR (Phospho-NF-κB p65 (Ser468) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Alpha Tubulin antibody (66031-1-ig) and NF-κB p65 antibody (80979-1-RR) subsequently. This data was developed using the same antibody clone with 82335-1-PBS in a different storage buffer formulation.

$1 \times 10^6$  NIH/3T3 cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.13 ug Phospho-NF-κB p65 (Ser468) Recombinant antibody (82335-1-RR, Clone:6N1) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed