

For Research Use Only

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

Catalog Number: 82335-1-RR **155 Publications**



## Basic Information

<b>Catalog Number:</b> 82335-1-RR	<b>GenBank Accession Number:</b> BC011603	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5970	<b>CloneNo.:</b> 6N1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q04206	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Full Name:</b> v-rel reticuloendotheliosis viral oncogene homolog A (avian)	
	<b>Calculated MW:</b> 65 kDa	
	<b>Observed MW:</b> 75 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : Calyculin A treated HeLa cells, Calyculin A treated NIH/3T3 cells
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, mouse, rat, pig	

## 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
Liqiu Hu	39918058	J Agric Food Chem	WB
Yaoyi Zhang	39900946	NPJ Sci Food	WB
Ye Jiang	39894793	J Neuroinflammation	WB

## Storage

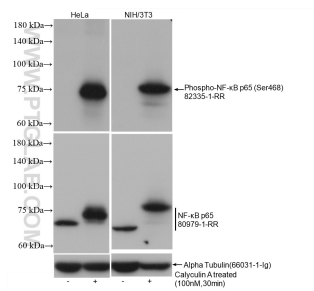
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

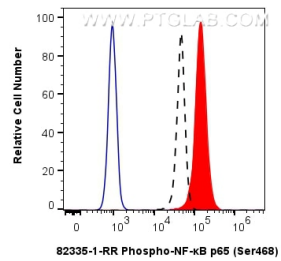
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## Selected Validation Data



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.



1X10<sup>6</sup> 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.