

For Research Use Only

Phospho-NF- κ B p65 (Ser468) Recombinant antibody

Catalog Number: 82335-1-RR **167 Publications**



Basic Information

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

Applications

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

Background Information

Nuclear factor κ B (NF- κ B) is a collective term for a small family of dimeric transcription factors [comprising p65 (RelA) and RelB, c-Rel, p50/p105 (NF- κ B1), and p52/p100 (NF- κ B2)]. All NF- κ 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 κ B, which is modulated by the I κ B kinase (IKK), and its degradation allows for the release of the typical NF- κ B heterodimer, p65/p50, to translocate into the nucleus. NF- κ 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
Xueqin Wang	40007906	Int J Nanomedicine	WB
Jiewu Huang	39979265	Cell Death Dis	WB
Siqi Zhou	39953605	Arthritis Res Ther	WB

Storage

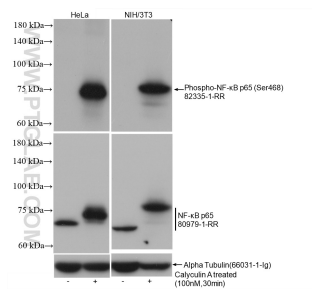
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

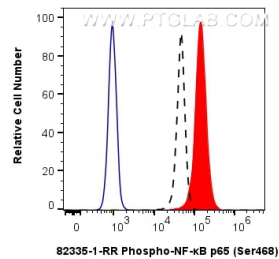
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Selected Validation Data



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.



1X10⁶ 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.