

For Research Use Only

# Phospho-IkB Alpha (Ser32/36) Recombinant antibody, PBS Only

Catalog Number: 82349-1-PBS



## Basic Information

<b>Catalog Number:</b> 82349-1-PBS	<b>GenBank Accession Number:</b> BC004983	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4792	<b>CloneNo.:</b> 1G21
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P25963	
<b>Isotype:</b> IgG	<b>Full Name:</b> nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	
	<b>Calculated MW:</b> 36 kDa	
	<b>Observed MW:</b> 36 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (NFKBIA, synonyms: IKBA, MAD-3, NFKB1). NFKB1 or NFKB2 is bound to REL, RELA, or RELB to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA or NFKBIB), which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, or IKBKB) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime. The antibody also detects the phosphorylated form of the NFKBIA (IkB Alpha) (PMID: 16904979, PMID: 28990531 PMID: 10455908).

## Storage

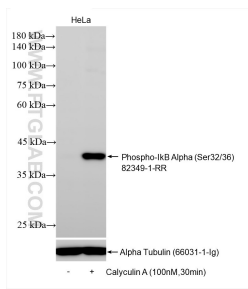
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

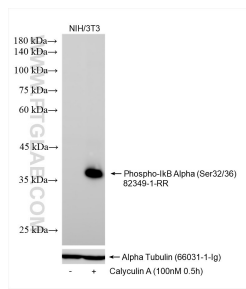
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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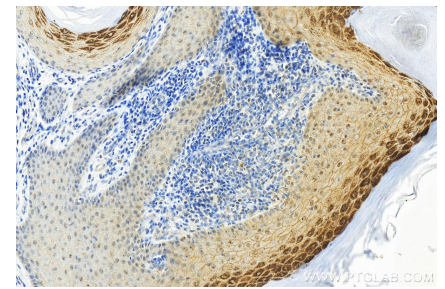
## Selected Validation Data



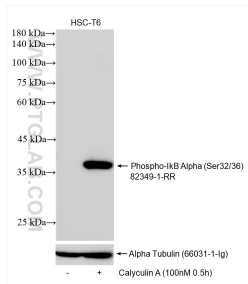
Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 82349-1-RR (Phospho-IkB Alpha (Ser32/36) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as loading control. This data was developed using the same antibody clone with 82349-1-PBS in a different storage buffer formulation.



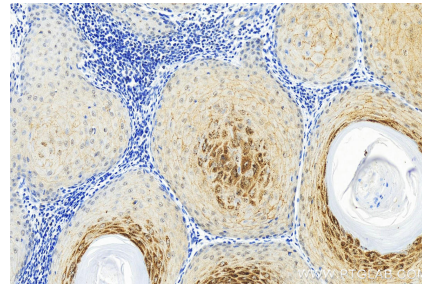
Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 82349-1-RR (Phospho-IkB Alpha (Ser32/36) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as loading control. This data was developed using the same antibody clone with 82349-1-PBS in a different storage buffer formulation.



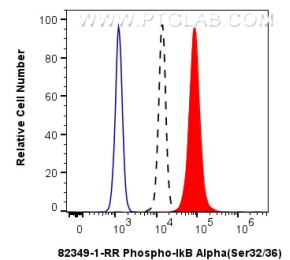
Immunohistochemical analysis of paraffin-embedded skin cancer slide using 82349-1-RR (Phospho-IkB Alpha (Ser32/36) antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82349-1-PBS in a different storage buffer formulation.



Non-treated and Calyculin A treated HSC-T6 cells were subjected to SDS PAGE followed by western blot with 82349-1-RR (Phospho-IkB Alpha (Ser32/36) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as loading control. This data was developed using the same antibody clone with 82349-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 82349-1-RR (Phospho-IkB Alpha (Ser32/36) antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82349-1-PBS in a different storage buffer formulation.



1X10<sup>6</sup> HeLa cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.06 ug Phospho-IkB Alpha (Ser32/36) Recombinant antibody (82349-1-RR, Clone:1G21) 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