

For Research Use Only

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

Catalog Number: 68999-1-PBS



## Basic Information

**Catalog Number:**

68999-1-PBS

**Size:**

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

**Source:**

Mouse

**Isotype:**

IgG1

**GenBank Accession Number:**

BC004983

**GeneID (NCBI):**

4792

**UNIPROT ID:**

P25963

**Full Name:**

nuclear factor of kappa light  
polypeptide gene enhancer in B-cells  
inhibitor, alpha

**Calculated MW:**

36 kDa

**Observed MW:**

36-39 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

2G8E5

## Applications

**Tested Applications:**

WB, Indirect ELISA

**Species Specificity:**

human

## 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 GGGRNNYCC 3-prime or 5-prime HGGARNYCC 3-prime. The antibody also detects the phosphorylated form of the NFKBIA (IkB Alpha).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

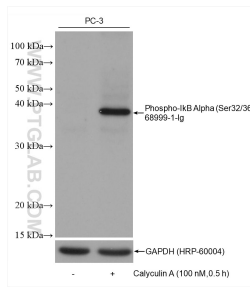
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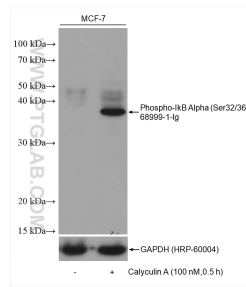
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## Selected Validation Data



Untreated PC-3 cells, PC-3 cells (treated with 100 nM Calyculin A for 0.5 hours) were subjected to SDS PAGE followed by western blot with 68999-1-Ig (Phospho-IkB Alpha antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (HRP-60004) antibody as loading control. This data was developed using the same antibody clone with 68999-1-PBS in a different storage buffer formulation.



Untreated MCF-7 cells, MCF-7 cells (treated with 100 nM Calyculin A for 0.5 hours) were subjected to SDS PAGE followed by western blot with 68999-1-Ig (Phospho-IkB Alpha antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (HRP-60004) antibody as loading control. This data was developed using the same antibody clone with 68999-1-PBS in a different storage buffer formulation.