

For Research Use Only

# IκB Alpha Polyclonal antibody

Catalog Number: 51066-1-AP

18 Publications



## Basic Information

### Catalog Number:

51066-1-AP

### Concentration:

300 μg/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

BC002601

### 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:

39 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:2000

IP: 0.5-4.0 μg for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : PC-3 cells, HeLa cells, Jurkat cells

IP : HeLa cells,

IHC : human cervical cancer tissue, human liver tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (NFKB1A, 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 GGGRNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zheng Zhenhua Z	21810613	J Immunol	WB
Hao Wang	34745126	Front Immunol	WB
DONG DING	34738623	Int J Mol Med	WB

## Storage

### Storage:

Store at -20°C.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

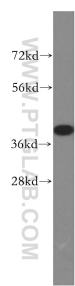
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

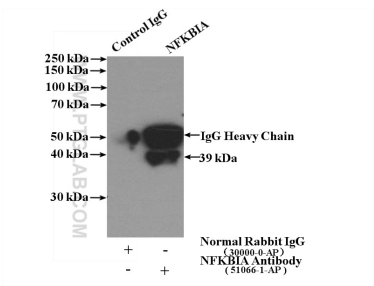
W: [ptgcn.com](http://ptgcn.com)

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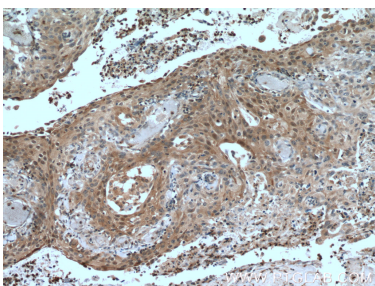
Selected Validation Data



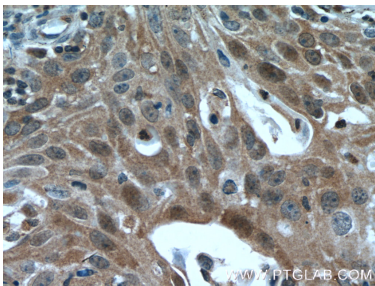
PC-3 cells were subjected to SDS PAGE followed by western blot with 51066-1-AP (IκB alpha antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-IκB Alpha (IP:51066-1-AP, 4μg; Detection:51066-1-AP 1:1000) with HeLa cells lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 51066-1-AP (IκB alpha antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 51066-1-AP (IκB alpha antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).