

For Research Use Only

# IκB Alpha Polyclonal antibody

Catalog Number: 18220-1-AP **10 Publications**



## Basic Information

<b>Catalog Number:</b> 18220-1-AP	<b>GenBank Accession Number:</b> BC004983	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 1000 ug/ml by Nanodrop and 347 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4792	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:200-1:800
<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>Immunogen Catalog Number:</b> AG12979	<b>Calculated MW:</b> 36 kDa	
	<b>Observed MW:</b> 39 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IP, ELISA	<b>Positive Controls:</b> WB: HL-60 cells, HeLa cells, Jurkat cells IP: HeLa cells, IHC: human kidney tissue, human liver tissue, human prostate cancer tissue, human stomach tissue IF/ICC: HeLa cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse, rat	

**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 (NFKBIA, synonyms: IKBA, MAD-3, NFKBI). 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xueling Zhou	33110436	Evid Based Complement Alternat Med	WB
Jian Zhan	27716383	J Neuroinflammation	WB
Qiang Tu	26647763	Mol. Med Rep	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

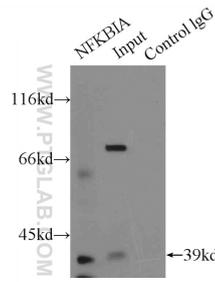
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

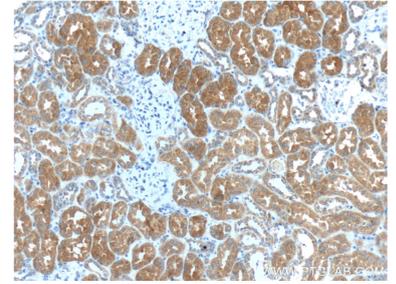
## Selected Validation Data



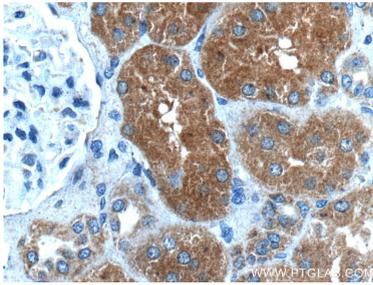
HL-60 cells were subjected to SDS PAGE followed by western blot with 18220-1-AP (IκB alpha antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



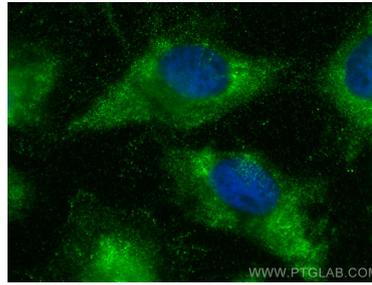
IP result of anti-IκB Alpha (IP:18220-1-AP, 5ug; Detection:18220-1-AP 1:500) with HeLa cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 18220-1-AP (IκB alpha antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 18220-1-AP (IκB alpha antibody at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using IκB Alpha antibody (18220-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).