

For Research Use Only

I κ B Alpha Polyclonal antibody

Catalog Number: 51066-1-AP **17 Publications**



Basic Information

Catalog Number: 51066-1-AP	GenBank Accession Number: BC002601	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 ug/ml by Nanodrop and 340 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4792	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P25963	
Isotype: IgG	Full Name: nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	
	Calculated MW: 36 kDa	
	Observed MW: 39 kDa	

Applications

Tested Applications: WB, IP, IHC, ELISA	Positive Controls: WB : PC-3 cells, HeLa cells, Jurkat cells IP : HeLa cells, IHC : human cervical cancer tissue, human liver tissue
Cited Applications: WB	
Species Specificity: human, mouse	
Cited Species: 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
Zheng Zhenhua Z	21810613	J Immunol	WB
Hao Wang	34745126	Front Immunol	WB
Mathilde Chataigner	33801489	Nutrients	WB

Storage

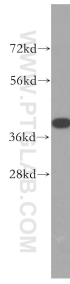
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

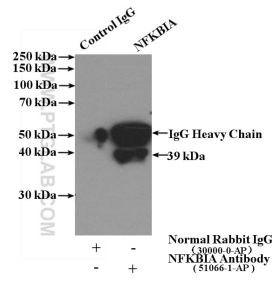
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

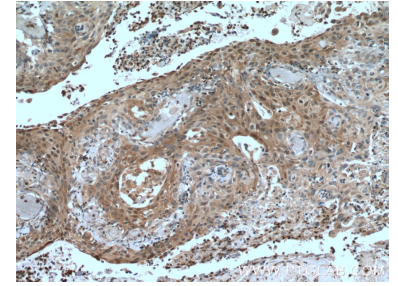
Selected Validation Data



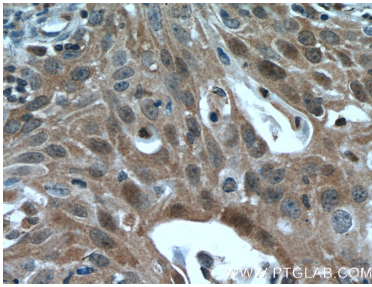
PC-3 cells were subjected to SDS PAGE followed by western blot with 51066-1-AP (I κ B alpha antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-I κ B Alpha (IP:51066-1-AP, 4 μ g; Detection:51066-1-AP 1:1000) with HeLa cells lysate 3200 μ g.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 51066-1-AP (I κ B alpha antibody) at dilution of 1:200 (under 10 \times 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 (I κ B alpha antibody) at dilution of 1:200 (under 40 \times lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).