

For Research Use Only

IκB Alpha Polyclonal antibody

Catalog Number: 51066-1-AP **10 Publications**



Basic Information

Catalog Number: 51066-1-AP	GenBank Accession Number: BC002601	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 220 µg/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 IP and 1:500-1:2000 for WB
Source: Rabbit	Full Name: nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	IHC 1:50-1:500
Isotype: IgG	Calculated MW: 36 kDa	
	Observed MW: 39 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : PC-3 cells, HeLa cells, Jurkat cells
Cited Applications: WB	IP : HeLa cells,
Species Specificity: human, mouse	IHC : human cervical cancer tissue, human liver tissue
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 (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 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

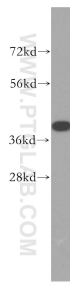
Storage

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

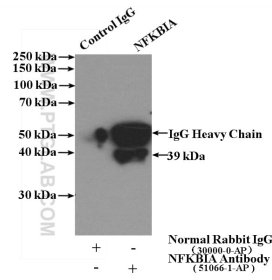
For technical support and original validation data for this product please contact:
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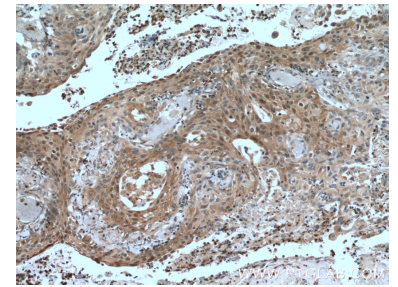
Selected Validation Data



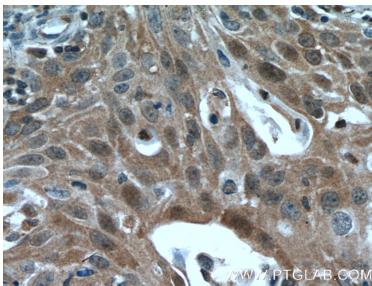
PC-3 cells were subjected to SDS PAGE followed by western blot with 51066-1-AP (IκB alpha antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP Result of anti-IκB alpha (IP:51066-1-AP, 4ug; 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).