

For Research Use Only

IκB Alpha Polyclonal antibody

Catalog Number: 10268-1-AP **563 Publications**



Basic Information

Catalog Number: 10268-1-AP	GenBank Accession Number: BC002601	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 4792	Recommended Dilutions: WB 1:5000-1:50000 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	
Immunogen Catalog Number: AG0345	Calculated MW: 36 kDa	
	Observed MW: 36 kDa	

Applications

Tested Applications:
WB, IHC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, ColP

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, mouse, rat, pig, chicken, bovine, ducks

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

Positive Controls:

WB : A431 cells, HeLa cells, HEK-293 cells, pig liver tissue, HL-60 cells, HepG2 cells, Jurkat cells, NIH/3T3 cells, PC-12 cells

IP : HeLa cells,

IHC : human stomach tissue, mouse kidney tissue, human prostate cancer tissue, human kidney tissue

Background Information

Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (NFκBIA, synonyms: IKBA, MAD-3, NFκBI). NFκB1 or NFκB2 is bound to REL, RELA, or RELB to form the NFκB complex. The NFκB complex is inhibited by I-kappa-B proteins (NFκBIA or NFκBIB), 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 NFκB 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
Menghui Xu	36290677	Antioxidants (Basel)	WB
Yuqian Wang	32942847	J Agric Food Chem	WB
Kun-Yi Li	32920833	J Neurochem	WB

Storage

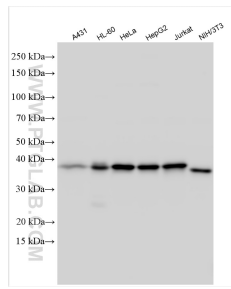
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

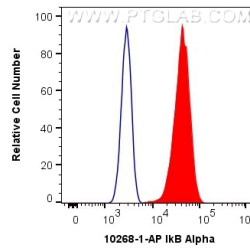
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

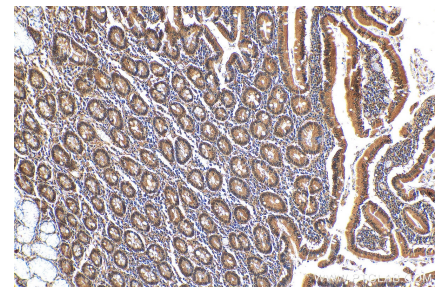
Selected Validation Data



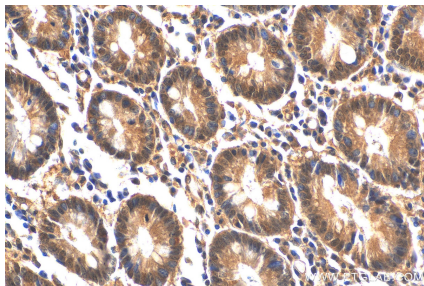
Various lysates were subjected to SDS PAGE followed by western blot with 10268-1-AP (IkB Alpha antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



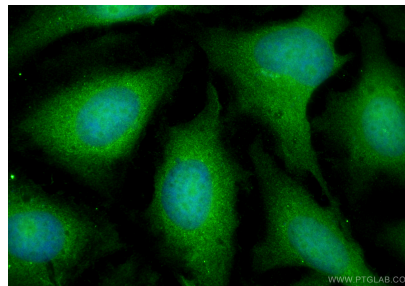
1×10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human IkB Alpha (10268-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



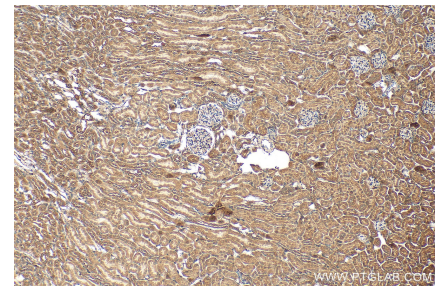
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 10268-1-AP (IkB Alpha antibody) at dilution of 1:200 (under 10x lens).



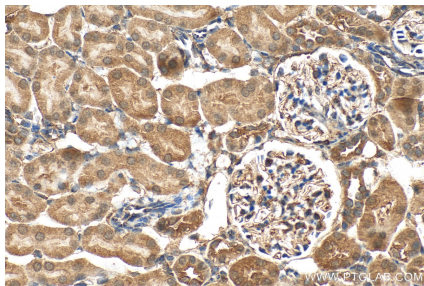
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 10268-1-AP (IkB Alpha antibody) at dilution of 1:200 (under 40x lens).



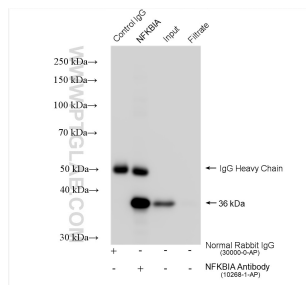
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using IkB Alpha antibody (10268-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



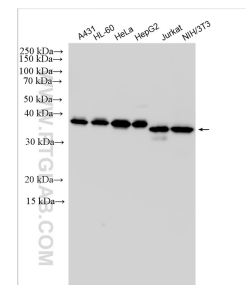
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10268-1-AP (IkB Alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10268-1-AP (IkB Alpha antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-IkB Alpha (IP:10268-1-AP, 4ug; Detection:10268-1-AP 1:15000) with HeLa cells lysate 1320 ug.



Various lysates were subjected to SDS PAGE followed by western blot with 10268-1-AP (IkB Alpha antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.