

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
Concentration: 800 ug/ml	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	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
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

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
Menghui Xu	36290677	Antioxidants (Basel)	WB
Yuqian Wang	32942847	J Agric Food Chem	WB
Kun-Yi Li	32920833	J Neurochem	WB

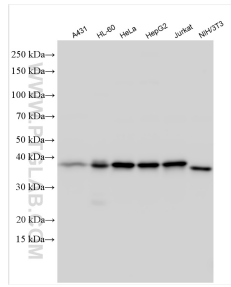
Storage

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

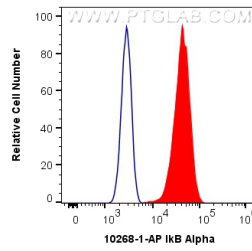
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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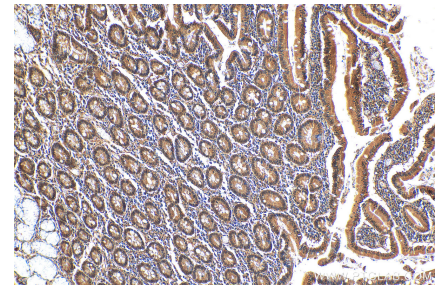
Selected Validation Data



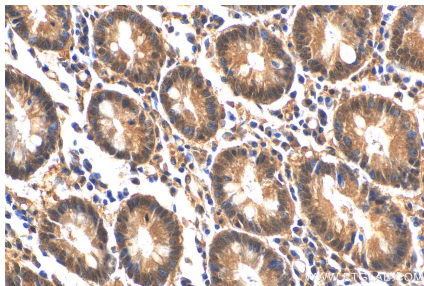
Various lysates were subjected to SDS PAGE followed by western blot with 10268-1-AP (IκB Alpha antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



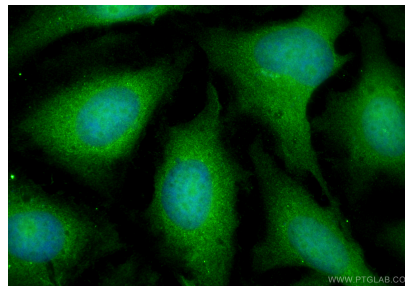
1×10^6 HeLa cells were intracellularly stained with 0.4 μ g Anti-Human IκB Alpha (10268-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 μ g Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



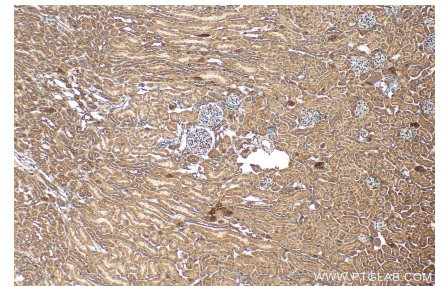
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 10268-1-AP (IκB Alpha antibody) at dilution of 1:200 (under 10x lens).



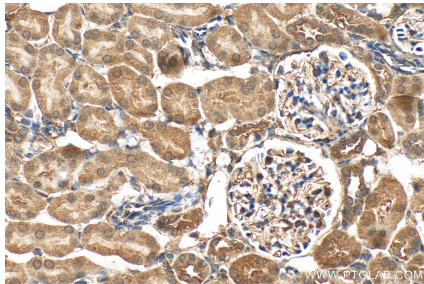
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 10268-1-AP (IκB Alpha antibody) at dilution of 1:200 (under 40x lens).



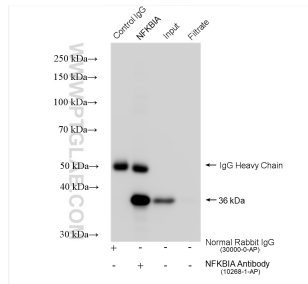
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using IκB Alpha antibody (10268-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



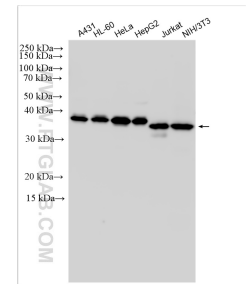
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10268-1-AP (IκB Alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10268-1-AP (IκB 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-IκB Alpha (IP:10268-1-AP, 4 μ g; Detection:10268-1-AP 1:15000) with HeLa cells lysate 1320 μ g.



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