

For Research Use Only

IκB Alpha Monoclonal antibody

Catalog Number: 66418-1-Ig

Featured Product

34 Publications



Basic Information

Catalog Number:

66418-1-Ig

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG22040

GenBank Accession Number:

BC004983

GeneID (NCBI):

4792

UNIPROT ID:

P25963

Full Name:

nuclear factor of kappa light

polypeptide gene enhancer in B-cells

inhibitor, alpha

Calculated MW:

36 kDa

Observed MW:

36 kDa

Purification Method:

Protein A purification

CloneNo.:

2G6H7

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig

**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 : HeLa cells, C6 cells, HEK-293 cells, HSC-T6 cells,
ROS1728 cells, Jurkat cells, Raji cells, K-562 cells, PC-
12 cells, NIH/3T3 cells, RAW 264.7 cells

IHC : human prostate cancer tissue,

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 GGGRNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime.

Notable Publications

Author	Pubmed ID	Journal	Application
Jinxin Miao	36097701	Animal Model Exp Med	WB
Liu Yang	31485630	Mol Med Rep	WB
Li Qian	36263717	Food Funct	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

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

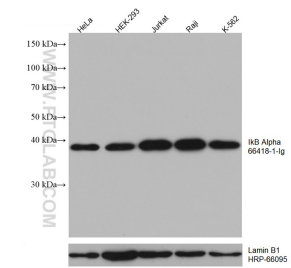
T: 4006900926

E: Proteintech-CN@ptglab.com

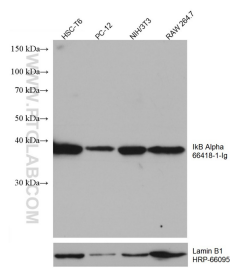
W: ptgcn.com

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

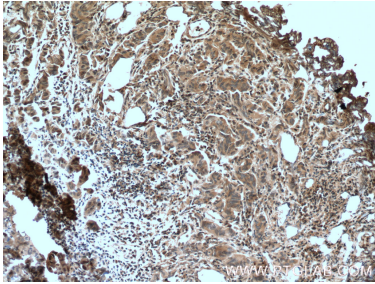
Selected Validation Data



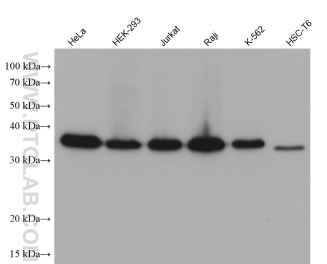
Various lysates were subjected to SDS PAGE followed by western blot with 66418-1-Ig (IkB alpha antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



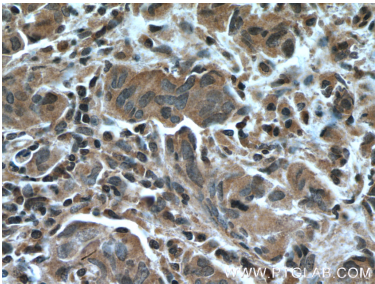
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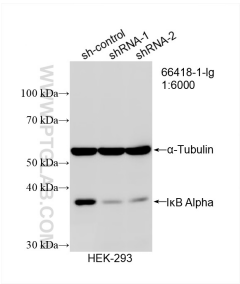
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66418-1-Ig (IkB alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66418-1-Ig (IkB alpha antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of IkB Alpha antibody (66418-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IkB Alpha transfected HEK-293 cells.