

For Research Use Only

IκB Alpha Recombinant antibody



Catalog Number:80019-1-RR

Basic Information

Catalog Number: 80019-1-RR	GenBank Accession Number: BC002601	Purification Method: Protein A purification
Size: 100UL, Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 4792	CloneNo.: 5C24
Source: Rabbit	Full Name: nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500
Isotype: IgG	Calculated MW: 36 kDa	
Immunogen Catalog Number: AG0345	Observed MW: 36 kDa and 35 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

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

Positive Controls:

WB: HEK-293 cells, Jurkat cells, Raji cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, RAW 264.7 cells

IHC: human breast cancer tissue, human prostate cancer tissue

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 GGGRNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime. IκB alpha can be observed as a band at 36 kDa in human cell lysates, and 35 kDa in mouse and rat cell lysates.

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

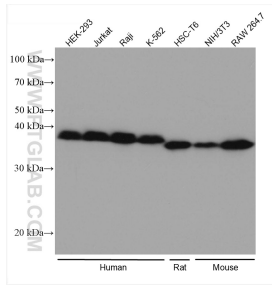
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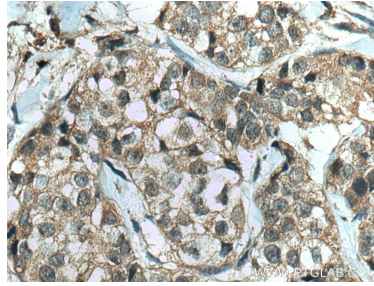
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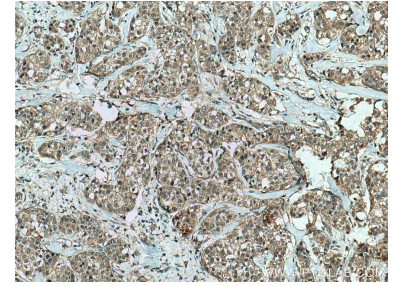
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 80019-1-RR (1kB alpha antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 80019-1-RR (1kB alpha antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 80019-1-RR (1kB alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).