

For Research Use Only

# IκB alpha Polyclonal ANTIBODY



Catalog Number: 51066-1-AP

3 Publications

## Basic Information

|  |  |  |
|--|--|--|
| <b>Catalog Number:</b><br>51066-1-AP                         | <b>GenBank Accession Number:</b><br>BC002601   | <b>Recommended Dilutions:</b><br>WB 1:500-1:2000<br>IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB<br>IHC 1:50-1:500 |
| <b>Size:</b><br>33 µg/150 µl                                 | <b>GeneID (NCBI):</b><br>4792  |  |
| <b>Source:</b><br>Rabbit                                     | <b>Full Name:</b><br>nuclear factor of kappa light poly peptide gene<br>enhancer in B-cells inhibitor, alpha |  |
| <b>Isotype:</b><br>IgG                                       | <b>Calculated MW:</b><br>36 kDa  |  |
| <b>Purification Method:</b><br>Antigen affinity purification | <b>Observed MW:</b><br>39 kDa  |  |
| <b>Immunogen Catalog Number:</b>                             |  |  |

## Applications

**Tested Applications:**  
IHC, IP, WB, ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
human, mouse

**Cited Species:**  
human, rat

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

**Positive Controls:**

**WB:** PC-3 cells; HeLa cells, Jurkat cells

**IP:** HeLa cells;

**IHC:** human liver tissue; human cervical cancer tissue

## Background Information

Nuclear factor of kappa light poly peptide 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 GGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime.

## Notable Publications

| Author          | Pubmed ID | Journal              | Application |
|-----------------|-----------|----------------------|-------------|
| Zheng Zhenhua Z | 21810613  | J Immunol            | WB          |
| Yunjing Zhang   | 29332931  | Med Sci Mbrnt        | WB          |
| Jie Li L        | 22198514  | Biochim Biophys Acta | 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

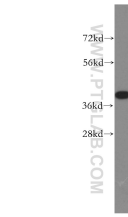
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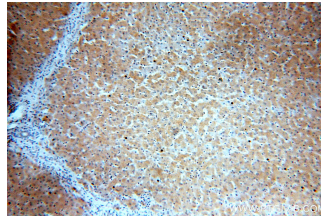
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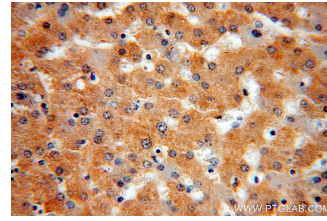
## Selected Validation Data



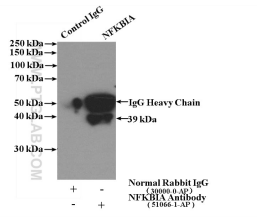
PC-3 cells were subjected to SDS PAGE followed by western blot with 51066-1-AP(IκB alpha antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours



Immunohistochemical of paraffin-embedded human liver using 51066-1-AP(IκB alpha antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical of paraffin-embedded human liver using 51066-1-AP(IκB alpha antibody) at dilution of 1:100 (under 40x lens)



IP Result of anti-IκB alpha (IP:51066-1-AP, 4ug; Detection:51066-1-AP 1:1000) with HeLa cells lysate 3200ug.