

## Anti-Phospho-IKB alpha (S32/S36) Antibody [PSH06-76] - BSA and Azide free

# HA751119



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, IF-Cell
<b>Molecular Wt:</b>	Predicted band size: 36 kDa
<b>Clone number:</b>	PSH06-76

**Description:** IκBα (nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor alpha; NFKBIA) is one member of a family of cellular proteins that function to inhibit the NF-κB transcription factor. IκBα inhibits NF-κB by masking the nuclear localization signals (NLS) of NF-κB proteins and keeping them sequestered in an inactive state in the cytoplasm. In addition, IκBα blocks the ability of NF-κB transcription factors to bind to DNA, which is required for NF-κB's proper functioning.

**Immunogen:** Synthetic phospho-peptide corresponding to residues surrounding Ser32/Ser36 of human IKB alpha aa 1-50.

**Positive control:** HeLa treated with 20ng/mL TNF-α and 100nM Calyculin A for 10 minutes cell lysate, NIH/3T3 treated with 20ng/mL TNF-α and 100nM Calyculin A for 10 minutes cell lysate, C6 treated with 100ng/mL Calyculin A for 1 hours cell lysate, human breast cancer tissue, HeLa cells treated with 20ng/mL TNF-α and 100nM Calyculin A for 10 minutes, NIH/3T3 cells treated with 20ng/mL TNF-α and 100nM Calyculin A for 10 minutes.

**Subcellular location:** Cytoplasm, Nucleus.

**Database links:** SwissProt: P25963 Human | Q9Z1E3 Mouse | Q63746 Rat

### Recommended Dilutions:

<b>WB</b>	1:5,000
<b>IHC-P</b>	1:200
<b>IF-Cell</b>	1:100-1:1,000

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

## Hangzhou Huaan Biotechnology Co., Ltd.

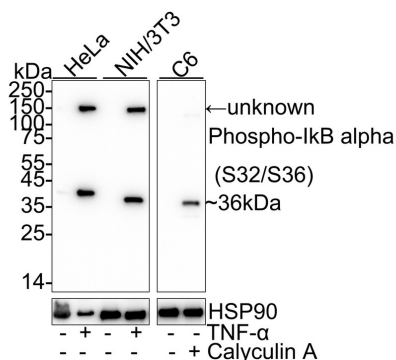
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation



**Fig1:** Western blot analysis of Phospho-IKB alpha (S32/S36) on different lysates with Rabbit anti-Phospho-IKB alpha (S32/S36) antibody (HA751119) at 1/5,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 20ng/mL TNF- $\alpha$  and 100nM Calyculin A for 10 minutes cell lysate

Lane 3: NIH/3T3 cell lysate

Lane 4: NIH/3T3 treated with 20ng/mL TNF- $\alpha$  and 100nM Calyculin A for 10 minutes cell lysate

Lane 5: C6 cell lysate

Lane 6: C6 treated with 100ng/mL Calyculin A for 1 hours cell lysate

Lysates/proteins at 20 µg/Lane.

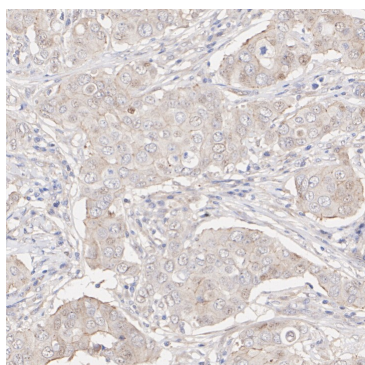
Predicted band size: 36 kDa

Observed band size: 36 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

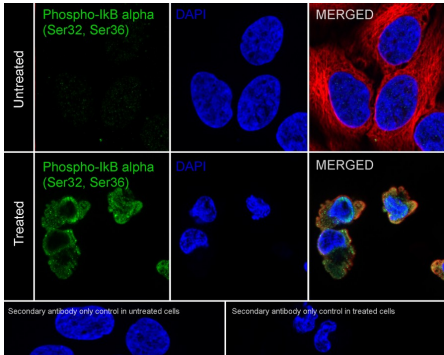
Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751119) at 1/5,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.



**Fig2:** Immunohistochemical analysis of paraffin-embedded human breast cancer tissue with Rabbit anti-Phospho-IKB alpha (S32/S36) antibody (HA751119) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA751119) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

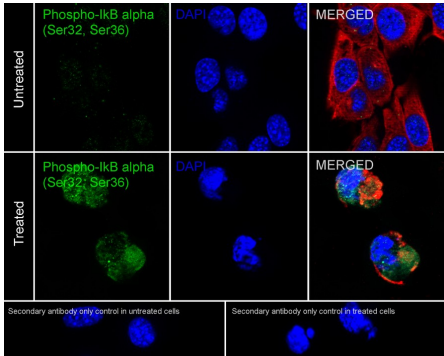
**Fig3:** Immunocytochemistry analysis of HeLa cells treated with 20ng/mL TNF-α and 100nM Calyculin A for 10 minutes labeling Phospho-IKB alpha (S32/S36) with Rabbit anti-Phospho-IKB alpha (S32/S36) antibody (HA751119) at 1/1,000 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Phospho-IKB alpha (S32/S36) antibody (HA751119) at 1/1,000 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

**Fig4:** Immunocytochemistry analysis of NIH/3T3 cells treated with 20ng/mL TNF-α and 100nM Calyculin A for 10 minutes labeling Phospho-IKB alpha (S32/S36) with Rabbit anti-Phospho-IKB alpha (S32/S36) antibody (HA751119) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Phospho-IKB alpha (S32/S36) antibody (HA751119) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. Chen WJ et al. PNU-74654 Suppresses TNFR1/IKB Alpha/p65 Signaling and Induces Cell Death in Testicular Cancer. Curr Issues Mol Biol. 2022 Jan
2. Liang WJ et al. HMGB1 upregulates NF-kB by inhibiting IKB-alpha and associates with diabetic retinopathy. Life Sci. 2020 Jan

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