

Anti-Phospho-IKB alpha (S32/S36) Antibody [PSH06-76]

HA722770



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

WB	1:5,000
IHC-P	1:200
IF-Cell	1:100-1:1,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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.

Orders:0086-571-88062880

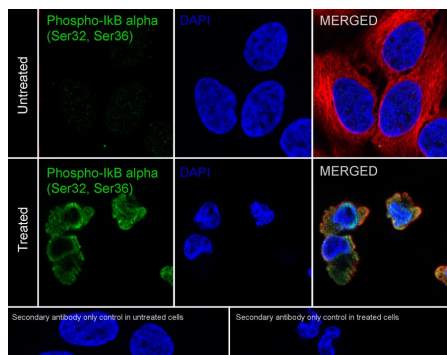
Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

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

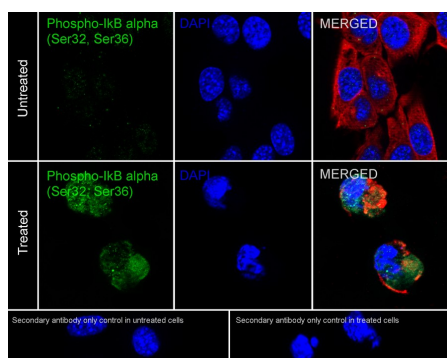
Fig3: Immunocytochemistry analysis of HeLa cells treated with 20ng/mL TNF- α and 100nM Calyculin A for 10 minutes labeling Phospho-IKB alpha (S32/S36) with Rabbit anti-Phospho-IKB alpha (S32/S36) antibody (HA722770) at 1/1,000 dilution.



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 (HA722770) 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 (HA722770) 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 (HA722770) 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.

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

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

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物
HUAABIO
www.huabio.cn

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