

# Anti-Phospho-IKB alpha (S32) Antibody [ST53-05]

## ET1609-78



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	WB, IF-Cell, IP
<b>Molecular Wt:</b>	Predicted band size: 36 kDa
<b>Clone number:</b>	ST53-05

<b>Description:</b>	On the basis of both functional and structural considerations, members of the IκB family of proteins can be divided into four groups. The first of these groups, IκB-α, includes the avian protein pp40 and the mammalian MAD-3, both of which inhibit binding of p50-p65 NFκB complex or Rel protein to their cognate binding sites but do not inhibit the binding of p50 homodimer to κB sites, suggesting that the IκB-α family binds to the p65 subunit of p50-p65 heterocomplex through ankyrin repeats. The second member of the IκB family is represented by a protein designated IκB-β. The third group of IκB proteins is represented by IκB-γ, which is identical in sequence with the C-terminal domain of the p110 precursor of NFκB p50 and is expressed predominantly in lymphoid cells. An additional IκB family member, IκB-ε, has several phosphorylated forms and is primarily found complexed with Rel A and/or c-Rel.
<b>Immunogen:</b>	Synthetic phospho-peptide corresponding to residues surrounding Ser32 of human IKB alpha.
<b>Positive control:</b>	HeLa treated with 20ng/mL TNF-α for 5 minutes cell lysate, NIH/3T3 cells were starved for 18 hours then treated with 20 ng/ml TNF alpha for 5 minutes, HeLa.
<b>Subcellular location:</b>	Cytoplasm, Nucleus.
<b>Database links:</b>	SwissProt: P25963 Human   Q9Z1E3 Mouse
<b>Recommended Dilutions:</b>	
<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:50-1:200
<b>IP</b>	Use at an assay dependent concentration.
<b>Storage Buffer:</b>	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
<b>Storage Instruction:</b>	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Purity:</b>	Protein A affinity purified.

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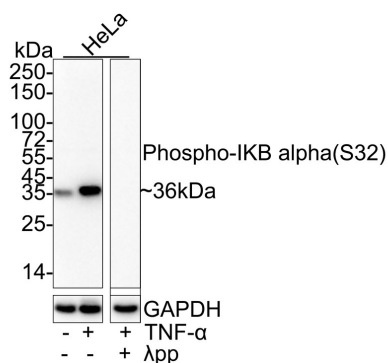
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## Images



**Fig1:** Western blot analysis of Phospho-IKB alpha (S32) on different lysates with Rabbit anti-Phospho-IKB alpha (S32) antibody (ET1609-78) at 1/1,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 20ng/mL TNF- $\alpha$  for 5 minutes cell lysate

Lane 3: HeLa treated with 20ng/mL TNF- $\alpha$  for 5 minutes cell lysate, then the membrane treated with  $\lambda$ pp for 1 hour

Lysates/proteins at 20  $\mu$ g/Lane.

Predicted band size: 36 kDa

Observed band size: 36 kDa

Exposure time: 1 minute 2 seconds;

4-20% SDS-PAGE gel.

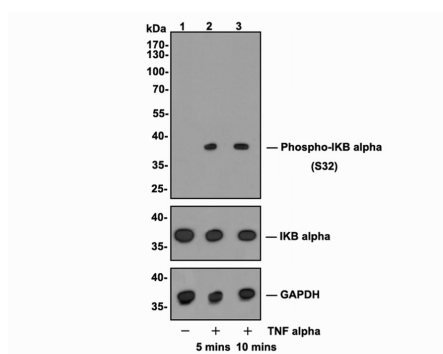
Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (ET1609-78) at 1/1,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of Phospho-IKB alpha (S32) on NIH-3T3 cell lysates.

Lane 1: NIH/3T3 cells were starved for 18 hours, whole cell lysate, 10  $\mu$ g/lane.

Lane 2: NIH/3T3 cells were starved for 18 hours, then treated with 20 ng/ml TNF alpha for 5 minutes, whole cell lysates, 10  $\mu$ g/lane.

Lane 3: NIH/3T3 cells were starved for 18 hours, then treated with 20 ng/ml TNF alpha for 10 minutes, whole cell lysates, 10  $\mu$ g/lane.



Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody Anti-Phospho-IKB alpha (S32) (ET1609-78, 1/1,000), Anti-IKB alpha antibody (ET1603-6, 1/2,000) and Anti-GAPDH antibody (ET1601-4, 1/10,000) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG H&L (HRP) Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

Predicted band size: 36 kDa

Observed band size: 36 kDa

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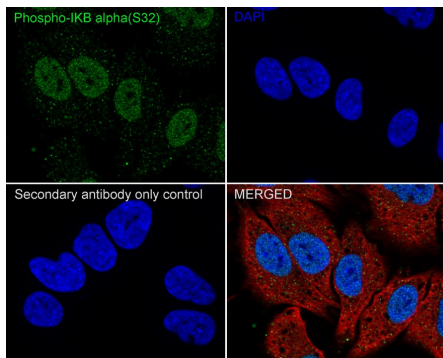
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**Fig3:** Immunocytochemistry analysis of HeLa cells labeling Phospho-IKB alpha (S32) with Rabbit anti-Phospho-IKB alpha (S32) antibody (ET1609-78) at 1/100 dilution.



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) antibody (ET1609-78) 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. Liu Y et al. The natural compound magnolol inhibits invasion and exhibits potential in human breast cancer therapy. *Sci Rep* 3:3098 (2013).
2. Kiefel H et al. EMT-associated up-regulation of L1CAM provides insights into L1CAM-mediated integrin signalling and NF- B activation. *Carcinogenesis* 33:1919-29 (2012).

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