

## phospho-IKB alpha (Tyr42) Rabbit pAb

Catalog Number: bs-5514R

Target Protein: phospho-IKB alpha (Tyr42)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1µg/Test)

Reactivity: Human, Mouse (predicted:Rabbit, Pig, Sheep, Cow)

Predicted MW: 35 kDa

Entrez Gene: 4792

Swiss Prot: P25963

Source: KLH conjugated Synthesised phosphopeptide derived from human IKB alpha around the phosphorylation site of Tyr42: EE(p-Y)EQ.

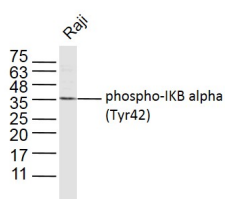
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

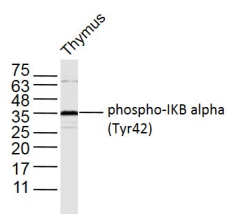
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** This gene encodes a member of the NF-kappa-B inhibitor family, which contain multiple ankrin repeat domains. The encoded protein interacts with REL dimers to inhibit NF-kappa-B/REL complexes which are involved in inflammatory responses. The encoded protein moves between the cytoplasm and the nucleus via a nuclear localization signal and CRM1-mediated nuclear export. Mutations in this gene have been found in ectodermal dysplasia anhidrotic with T-cell immunodeficiency autosomal dominant disease. [provided by RefSeq, Aug 2011]

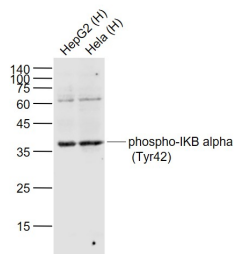
### VALIDATION IMAGES



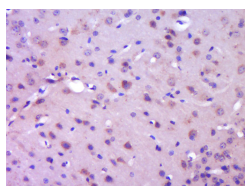
Sample: Raji (Human) Lysate at 40 ug  
Primary: Anti- phospho-IKB alpha (Tyr42) (bs-5514R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 35 kD  
Observed band size: 35 kD



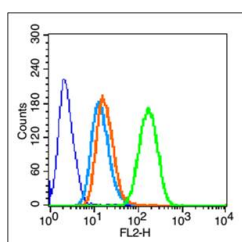
Sample: Thymus(Mouse) Lysate at 40 ug Primary: Anti- phospho-IKB alpha (Tyr42) (bs-5514R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kD  
Observed band size: 35 kD



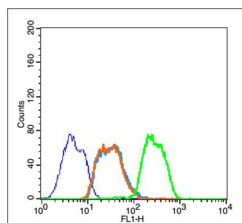
Sample: Lane 1: HepG2 (Human) Cell Lysate at 30 ug Lane 2: HeLa (Human) Cell Lysate at 30 ug Primary: Anti- phospho-IKB alpha (Tyr42) (bs-5514R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kD Observed band size: 37 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (p-IKB alpha (Tyr42)) Polyclonal Antibody, Unconjugated (bs-5514R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (blue line): HeLa (fixed with 70% methanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C). Primary Antibody (green line): Rabbit Anti-phospho-IKB alpha (Tyr42) antibody (bs-5514R), Dilution: 1µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1µg /test.



Blank control (blue line): Jurkat (fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice). Primary Antibody (green line): Rabbit Anti-phospho-IKB alpha (Tyr42) antibody (bs-5514R), Dilution: 1µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, Dilution: 1µg /test.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=4.211] Liu, et al. Human umbilical cord mesenchymal stem cell conditioned medium attenuates renal fibrosis by reducing inflammation and epithelial-to-mesenchymal transition via the TLR4/NF-κB signaling pathway in vivo and in vitro. (2018) Stem Cell Research & Therapy. 9:7. WB ; Rat . 29329595

[IF=2.447] Yanjie Wang. et al. Bisdemethoxycurcumin attenuates OVA-induced food allergy by inhibiting the MAPK and NF-κB signaling pathways. EXP THER MED. 2022 Jun;23(6):1-8 WB ; MOUSE . 10.3892/etm.2022.11328

[IF=2.2] Xiaoyun Zhang. et al. Modified Buyang Huanwu Decoction alleviates diabetic liver injury via inhibiting oxidative stress in db/db mice. AM J TRANSL RES. 2024; 16(1): 39–50 WB ; MOUSE . 38322549

[IF=1.347] Teng, et al. Anti-inflammatory effect of tranexamic acid against trauma-hemorrhagic shock-induced acute lung injury in rats. (2018) Experimental Animals. . WB ; Rat . 29398669