

## IκB-β (phospho Ser23) Polyclonal Antibody

Catalog No: YP0153

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: IκB β

Fields: >>Chemokine signaling pathway;>>NOD-like receptor signaling pathway;>>RIG-

I-like receptor signaling pathway;>>Cytosolic DNA-sensing pathway;>>Th1 and Th2 cell differentiation;>>T cell differentiation;>>T cell receptor signaling pathway;>>B cell receptor signaling pathway;>>Neurotrophin signaling

pathway;>>Adipocytokine signaling pathway;>>Pathogenic Escherichia coli infect ion;>>Shigellosis;>>Leishmaniasis;>>Toxoplasmosis;>>Measles;>>Influenza A;>>Epstein-Barr virus infection;>>Coronavirus disease - COVID-19;>>PD-L1

expression and PD-1 checkpoint pathway in cancer

Gene Name: NFKBIB

**Protein Name:** NF-kappa-B inhibitor beta

Human Gene Id: 4793

**Human Swiss Prot** 

No:

Mouse Gene Id: 18036

**Mouse Swiss Prot** 

No:

Q60778

Q15653

Rat Swiss Prot No: Q9JIA3

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

IkappaB-beta around the phosphorylation site of Ser23. AA range:8-57

**Specificity:** Phospho-IκB-β (S23) Polyclonal Antibody detects endogenous levels of IκB-β

protein only when phosphorylated at S23.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

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Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not

yet tested in other applications.

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 37kD

Cell Pathway: Chemokine; NOD-like receptor; RIG-I-like receptor; Cytosolic DNA-sensing

pathway; T\_Cell\_Receptor; B\_Cell\_Antigen; Neurotrophin; Adipocytokine;

**Background:** The protein encoded by this gene belongs to the NF-kappa-B inhibitor family,

which inhibit NF-kappa-B by complexing with, and trapping it in the cytoplasm. Phosphorylation of serine residues on these proteins by kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B, which translocates to the nucleus to function as a transcription factor. Alternatively spliced transcript variants have been found for this gene.[provided

by RefSeq, Jul 2011],

**Function:** function:Inhibits NF-kappa-B by complexing with and trapping it in the

cytoplasm. However, the unphosphorylated form resynthesized after cell stimulation is able to bind NF-kappa-B allowing its transport to the nucleus and protecting it to further IKBA-dependent inactivation. Association with inhibitor kappa B-interacting NKIRAS1 and NKIRAS2 prevent its phosphorylation

rendering it more resistant to degradation, explaining its slower

degradation.,PTM:Phosphorylated; followed by degradation. Interaction with NKIRAS1 and NKIRAS2 probably prevents phosphorylation.,similarity:Belongs to

the NF-kappa-B inhibitor family., similarity: Contains 6 ANK

repeats.,subunit:Interacts with THRB (via ligand-binding domain). Interacts with RELA and REL. Interacts with COMMD1 and inhibitor kappa B-interacting Ras-

like NKIRAS1 and NKIRAS2.,tissue specificity:Expressed in all tissues

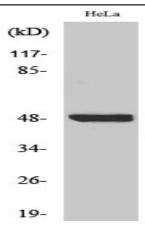
examined.,

Subcellular Location:

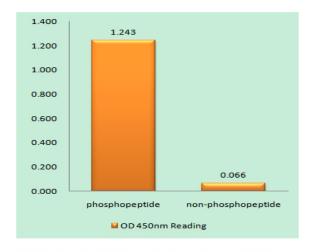
Cytoplasm . Nucleus .

**Expression:** Expressed in all tissues examined.

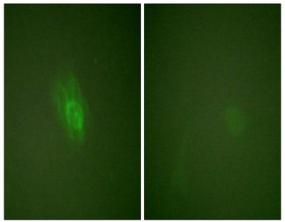
## **Products Images**



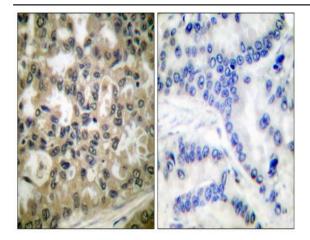
Western Blot analysis of various cells using Phospho-I $\kappa$ B- $\beta$  (S23) Polyclonal Antibody



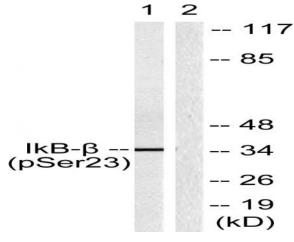
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IkappaB-beta (Phospho-Ser23) Antibody



Immunofluorescence analysis of HeLa cells treated with TNF-a 20nM 15', using IkappaB-beta (Phospho-Ser23) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using IkappaB-beta (Phospho-Ser23) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with TNF-a 20ng/ml 5', using IkappaB-beta (Phospho-Ser23) Antibody. The lane on the right is blocked with the phospho peptide.