

## IκB-β (Phospho Ser23) Rabbit pAb

CatalogNo: YP0153 Orthogonal Validated 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 37kD (Observed)

#### Isotype

- IgG

### Storage

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

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

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**IF 1:200-1:1000**

**ELISA 1:40000**

**Not yet tested in other applications.**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human IκappaB-beta around the phosphorylation site of Ser23. AA range:8-57

## Specificity

Phospho-I $\kappa$ B- $\beta$  (S23) Polyclonal Antibody detects endogenous levels of I $\kappa$ B- $\beta$  protein only when phosphorylated at S23. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):LGSLG

## Target Information

**Gene name** NFKB1B

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

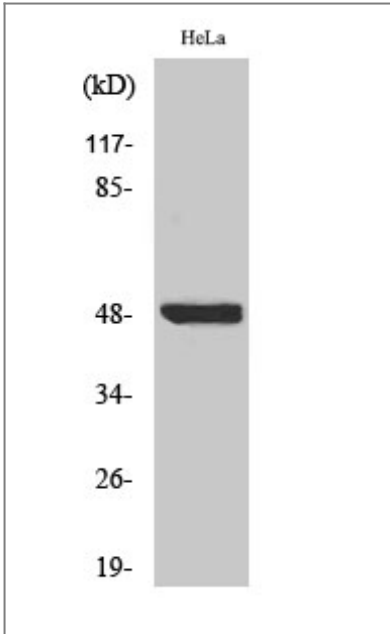
Organism	Gene ID	UniProt ID
Human	<a href="#">4793</a> ;	<a href="#">Q15653</a> ;
Mouse	<a href="#">18036</a> ;	<a href="#">Q60778</a> ;
Rat		<a href="#">Q9JIA3</a> ;

**Cellular Localization** Cytoplasm . Nucleus .

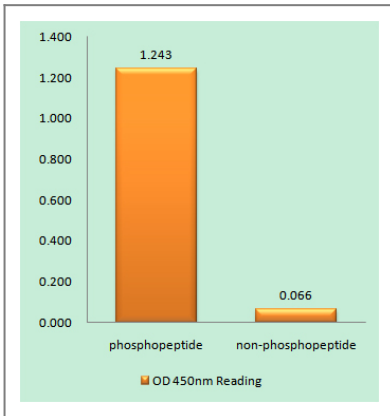
**Tissue specificity** Expressed in all tissues examined.

**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.,

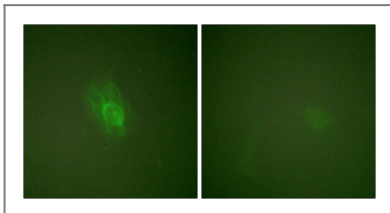
## Validation Data



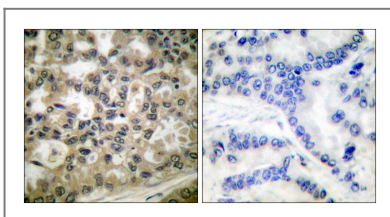
Western Blot analysis of various cells using Phospho-IκB-β (S23) Polyclonal Antibody



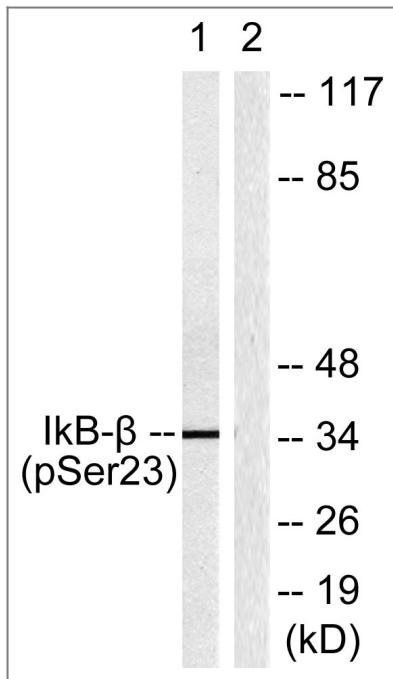
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IκappaB-beta (Phospho-Ser23) Antibody



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



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using IκappaB-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- $\alpha$  20ng/ml 5', using I $\kappa$ B- $\beta$  (Phospho-Ser23) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

Orders: [order@immunoway.com](mailto:order@immunoway.com)  
 Support: [tech@immunoway.com](mailto:tech@immunoway.com)  
 Telephone: 877-594-3616 (Toll Free), 408-747-0185  
 Website: <http://www.immunoway.com>  
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:  
**I $\kappa$ B- $\beta$  (Phospho Ser23) Rabbit pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)