

## Product datasheet for **TA392493**

### **IKB beta (NFKBIB) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:1000~1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human I $\kappa$ B- $\beta$ around the phosphorylation site of Serine 23.
Specificity:	I $\kappa$ B- $\beta$ (Phospho-S23) polyclonal antibody detects endogenous levels of I $\kappa$ B- $\beta$ protein only when phosphorylated at Ser23.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 42 kDa
Gene Name:	NFKB inhibitor beta
Database Link:	<a href="#">Entrez Gene 4793 Human Q15653</a>



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**Background:**

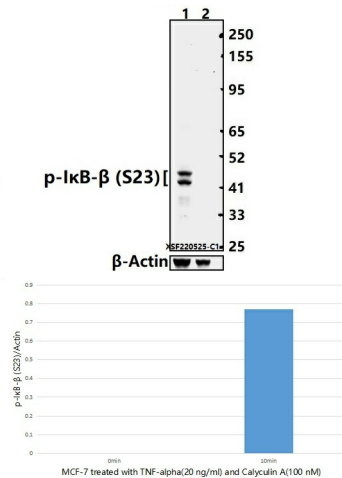
The NF- $\kappa$ B/Rel transcription factors are present in the cytosol in an inactive state complexed with the inhibitory I $\kappa$ B proteins. Activation occurs via phosphorylation of I $\kappa$ B $\alpha$  at Ser32 and Ser36 followed by proteasome-mediated degradation that results in the release and nuclear translocation of active NF- $\kappa$ B. I $\kappa$ B $\alpha$  phosphorylation and resulting Rel-dependent transcription are activated by a highly diverse group of extracellular signals including inflammatory cytokines, growth factors, and chemokines. Kinases that phosphorylate I $\kappa$ B at these activating sites have been identified. The regulation of I $\kappa$ B $\beta$  and I $\kappa$ B $\epsilon$  is similar to that of I $\kappa$ B $\alpha$ . However, the phosphorylation and ubiquitin-mediated degradation of these proteins occurs with much slower kinetics. IKK phosphorylation of I $\kappa$ B $\beta$  occurs at Ser19 and Ser23, while I $\kappa$ B $\epsilon$  can be phosphorylated at Ser18 and Ser22.

**Synonyms:**

I-kappa-B-beta; IkappaBbeta; I $\kappa$ B-B; I $\kappa$ B-beta; IKBB; NF-kappa-BIB; NF-kappa-B inhibitor beta; NFKBIB; Thyroid receptor-interacting protein 9; TR-interacting protein 9; TRIP-9; TRIP9

**Note:**

For research use only, not for use in diagnostic procedure.

**Product images:**


Western blot (WB) analysis of I $\kappa$ B- $\beta$  (Phospho-S23) polyclonal antibody at 1:1000 dilution  
 Lane1:MCF-7 treated with TNF-alpha(20 ng/ml,10 minutes) and Calyculin A(100 nM,10 minutes) whole cell lysate(40ug) Lane2:MCF-7 whole cell lysate(40ug)