

## I $\kappa$ B- $\beta$ (Phospho-S23) polyclonal antibody

Catalog: AP0624

Host: Rabbit

Reactivity: Human

### 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.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

### Molecular Weight:

~ 42 kDa

### Swiss-Prot:

Q15653

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:1000~1:2000

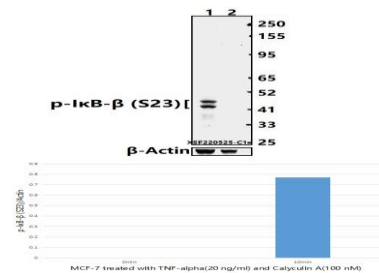
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

I $\kappa$ B- $\beta$  (Phospho-S23) polyclonal antibody detects endogenous levels of I $\kappa$ B- $\beta$  protein only when phosphorylated at Ser23.

### DATA:



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)

### Note:

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

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