

## IKK $\alpha$ (phospho-T23) polyclonal antibody

Catalog: BS4100

Host: Rabbit

Reactivity: Human, Mouse, Rat

### 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. Most agents that activate NF- $\kappa$ B do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of I $\kappa$ B. The key regulatory step in this pathway involves activation of a high molecular weight I $\kappa$ B kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKK $\alpha$  and IKK $\beta$  serve as the catalytic subunits of the kinase and IKK $\gamma$  serves as the regulatory subunit. Activation of IKK depends upon phosphorylation at Ser177 and Ser181 in the activation loop of IKK $\beta$  (Ser176 and Ser180 in IKK $\alpha$ ), which causes conformational changes, resulting in kinase activation.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 85 kDa

### Swiss-Prot:

O15111

### 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: 1:500~1:1000

IHC: 1:50~1:200

### Storage&Stability:

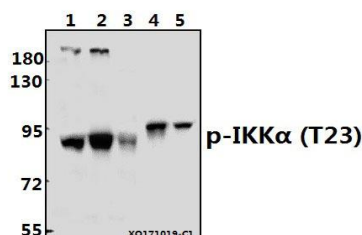
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

IKK $\alpha$  (phospho-T23) polyclonal antibody detects endog-

enous levels of IKK $\alpha$  protein only when phosphorylated at Thr23.

### DATA:



Western blot (WB) analysis of IKK $\alpha$  (phospho-T23) polyclonal antibody at 1:500 dilution

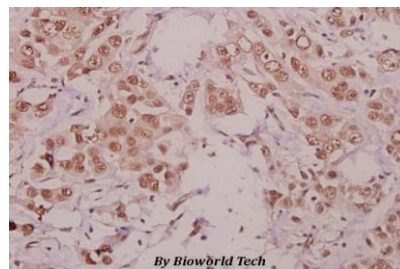
Lane1:K562 whole cell lysate(40ug)

Lane2:HepG2 whole cell lysate(40ug)

Lane3:HEK293T whole cell lysate(40ug)

Lane4:The Embryo tissue lysate of Rat(10ug)

Lane5:The Brain tissue lysate of Mouse(40ug)



Immunohistochemistry (IHC) analyzes of IKK $\alpha$  (phospho-T23) polyclonal antibody in paraffin-embedded human colorectal carcinoma tissue at 1:50.

### Note:

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

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