

## IKK $\alpha$ / $\beta$ (phospho-S180/181) polyclonal antibody

Catalog: BS4237

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 (IKK $\alpha$ ); 87kDa (IKK $\beta$ )

### Swiss-Prot:

O15111/O14920

### 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

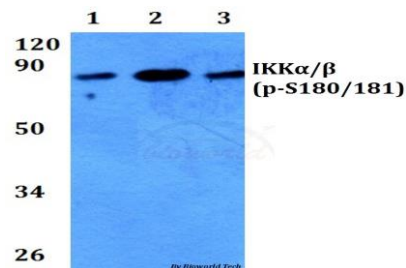
### Storage&Stability:

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

### Specificity:

p-IKK $\alpha$ / $\beta$  (S180/181) polyclonal antibody detects endogenous levels of IKK $\alpha$  only when phosphorylated at Ser180 and IKK $\beta$  only when phosphorylated at Ser181.

### DATA:

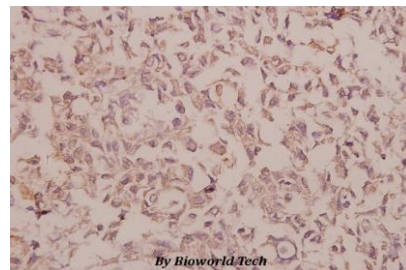


Western blot (WB) analysis of p-IKK $\alpha$ / $\beta$  (S180/181) polyclonal antibody at 1:500 dilution

Lane1:A549 cell lysate treated with lps(100ng/ml,15mins)

Lane2:Raw264.7 cell lysate treated with lps(100ng/ml,15mins)

Lane3:H9C2 cell lysate treated with lps(100ng/ml,15mins)



Immunohistochemistry (IHC) analyzes of p-IKK $\alpha$ / $\beta$  (S180/181) pAb 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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