

## IKK $\gamma$ (phospho-S85) polyclonal antibody

Catalog: BS4597

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

Activation of NF $\kappa$ B requires that I $\kappa$ B be phosphorylated on specific serine residues, which results in targeted degradation of I $\kappa$ B. I $\kappa$ B kinase  $\alpha$  (IKK $\alpha$ ), previously designated CHUK, interacts with I $\kappa$ B- $\alpha$  and specifically phosphorylates I $\kappa$ B $\alpha$  on Serine 32 and 36, the sites that trigger its degradation. IKK $\alpha$  appears to be critical for NF $\kappa$ B activation in response to proinflammatory cytokines. Phosphorylation of I $\kappa$ B by IKK $\alpha$  is stimulated by the NF $\kappa$ B inducing kinase (NIK), which itself is a central regulator for NF $\kappa$ B activation in response to TNF and IL-1. The functional IKK complex contains three subunits, IKK $\alpha$ , IKK $\beta$  and IKK $\gamma$  (also designated NEMO), and each appear to make essential contributions to I $\kappa$ B phosphorylation.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 48 kDa

### Swiss-Prot:

Q9Y6K9

### 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

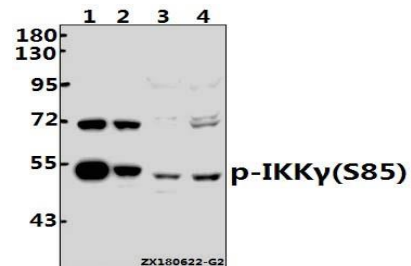
### Storage&Stability:

Store at 4  $^{\circ}$ C short term. Aliquot and store at -20  $^{\circ}$ C long term. Avoid freeze-thaw cycles.

### Specificity:

p-IKK $\gamma$  (S85) polyclonal antibody detects endogenous levels of IKK $\gamma$  protein only when phosphorylated at Ser85.

### DATA:



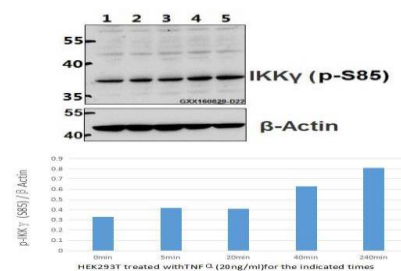
Western blot (WB) analysis of p-IKK $\gamma$  (S85) pAb at 1:500 dilution

Lane1: The Heart tissue lysate of Mouse(10ug)

Lane2: The Brain tissue lysate of Rat(20ug)

Lane3: A549 whole cell lysate(40ug)

Lane4: HEK293T whole cell lysate(40ug)



Western blot (WB) analysis of IKK $\gamma$  (phospho-S85) pAb at 1:500 dilution

Lane1: HEK293T whole cell lysate

Lane2: HEK293T treated with TNF $\alpha$ (20ng/ml) for 5 minutes whole cell lysate

Lane3: HEK293T treated with TNF $\alpha$ (20ng/ml) for 20 minutes whole cell lysate

Lane4: HEK293T treated with TNF $\alpha$ (20ng/ml) for 40 minutes whole cell lysate

Lane5: HEK293T treated with TNF $\alpha$ (20ng/ml) for 4 hours whole cell lysate

### Note:

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

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