

## IKK $\gamma$ (Phospho-S31) polyclonal antibody

Catalog: BCP00945

Host: Rabbit

Reactivity: Human

### 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:

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

### Molecular Weight:

~ 54 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: 1:1000~1:2000

IHC: 1:50~1:200

IF: 1:50~1:200

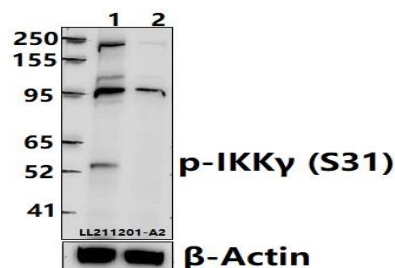
### Storage&Stability:

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

### Specificity:

IKK $\gamma$  (Phospho-S31) polyclonal antibody detects endogenous levels of IKK $\gamma$  protein only when phosphorylated at Ser31.

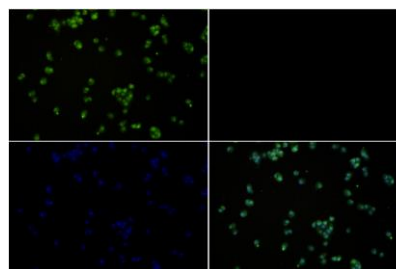
### DATA:



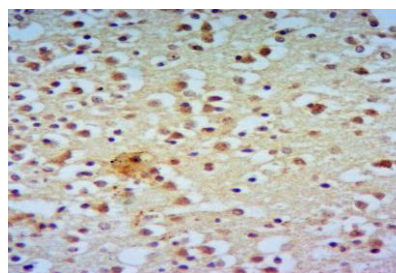
Western blot (WB) analysis of IKK $\gamma$  (Phospho-S31) polyclonal antibody at 1:2000 dilution

Lane1:HeLa whole cell lysate(40ug)

Lane2:Hela treated with  $\lambda$ -phosphatase whole cell lysate(40ug)



Immunofluorescence analysis of HeLa cells using IKK $\gamma$  (Phospho-S31) antibody at dilution of 1:50.



Immunohistochemistry of paraffin-embedded Human Brain using IKK $\gamma$  (Phospho-S31)antibody at dilution of 1:50.

### Note:

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