**p-IKKα/β (Ser 176): sc-21661**

**BACKGROUND**

The transcription factor NFκB is retained in the cytoplasm in an inactive form by the inhibitory protein IκB. Activation of NFκB requires that IκB be phosphorylated on specific serine residues, which results in targeted degradation of IκB. IκB kinase α (IKKα) interacts with IκB-α and specifically phosphorylates IκB-α on the sites that trigger its degradation, Serines 32 and 36. The functional IKK complex contains three subunits, designated IKKα, IKKβ and IKKγ (also designated NEMO); each appears to make essential contributions to IκB phosphorylation. NFκB inducing kinase (NIK) phosphorylates IKKα at Serine 176.

**CHROMOSOMAL LOCATION**

Genetic locus: CHUK (human) mapping to 10q24.2, IKBKB (human) mapping to 8p11.21; Chuk (mouse) mapping to 19 C3, Ikbkb (mouse) mapping to 8 A2.

**SOURCE**

p-IKKα/β (Ser 176) is available as either goat (sc-21661) or rabbit (sc-21661-R) polyclonal antibody raised against a short amino acid sequence containing Ser 176 phosphorylated IKKα of mouse origin.

**PRODUCT**

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-21661 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

- p-IKKα/β (Ser 176) is recommended for detection of Ser 176 phosphorylated IKKα and Ser 177 phosphorylated IKKβ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

- p-IKKα/β (Ser 176) is also recommended for detection of correspondingly phosphorylated on IKKα and IKKβ in additional species, including canine, bovine and porcine.

- Molecular Weight of p-IKKα: 85 kDa.

- Molecular Weight of p-IKKβ: 87 kDa.

- Positive Controls: HeLa + TNFα cell lysate: sc-2228 or HeLa whole cell lysate: sc-2200.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

**DATA**

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

**SELECT PRODUCT CITATIONS**


