NFkB p65 (F-6): sc-8008

**BACKGROUND**

Proteins encoded by the v-Rel viral oncogene and its cellular homolog, c-Rel, are members of a family of transcription factors that include the two subunits of the transcription factor Nkx (p50 and p65) and the Drosophila maternal morphogen, dorsal. Both proteins specifically bind to DNA sequences that are the same or slightly variations of the 10 bp κ sequence in the immunoglobulin κ light chain enhancer. This same sequence is also present in a number of other cellular and viral enhancers. The DNA binding activity of NFkB is activated and NFkB is subsequently transported from the cytoplasm to the nucleus in cells exposed to mitogens or growth factors. cDNAs encoding precursors for two distinct proteins of the same size have been described, designated p105 and p100. The p105 precursor contains p50 at its N-terminus and a C-terminal region that when expressed as a separate molecule, designated p50, binds to p50 and regulates its activity.

**CHROMOSOMAL LOCATION**

Genetic locus: RELA (human) mapping to 11q13.1; Rela (mouse) mapping to 790 (sc-8008 AF790), 594 (sc-8008 AF594) or Alexa Fluor 405 (sc-8008 AF405), 100 tests in 2 ml, for IF, IHC(P) and FCM.

**SOURCE**

NFkB p65 (F-6) is a mouse monoclonal antibody raised against amino acids 1-286 of NFkB p65 of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Shift Supershift and ChIP applications, sc-8008 X, 200 µg/0.1 ml.

NFkB p65 (F-6) is available conjugated to agarose (sc-8008 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-8008 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-8008 PE), fluorescein (sc-8008 FITC), Alexa Fluor® 488 (sc-8008 AF488), Alexa Fluor® 546 (sc-8008 AF546), Alexa Fluor® 594 (sc-8008 AF594) or Alexa Fluor® 647 (sc-8008 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FC; and to either Alexa Fluor® 680 (sc-8008 AF680) or Alexa Fluor® 790 (sc-8008 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, NFkB p65 (F-6) is available conjugated to biotin (sc-8008 B), 200 µg/ml, for WB, IHC(P) and ELISA; and to either TRITC (sc-8008 TRITC, 200 µg/ml), PerCP (sc-8008 PerCP), PerCP-Cy5.5 (sc-8008 PC05) or Alexa Fluor® 405 (sc-8008 AF405), 100 tests in 2 ml, for IF, IHC(P) and FC.

**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 for detailed protocols and support products.

**APPLICATIONS**

NFkB p65 (F-6) is recommended for detection of NFkB p65 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1 µg per 1 x 10⁶ cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


NFkB p65 (F-6) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

**DATA**

Molecular Weight of NFkB p65: 65 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, T24 cell lysate: sc-2292 or THP-1 cell lysate: sc-2238.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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