**NFkB p65 (C-20): sc-372**

**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 NFκB (p50 and p65) and the Drosophila maternal morphogen, dorsal. Both proteins specifically bind to DNA sequences that are the same or slight variations of the 10 bp κ light chain enhancer. This same sequence is also present in a number of other cellular and viral enhancers. The DNA binding activity of NFκB is activated and NFκB 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 pD, binds to p50 and regulates its activity.

**CHROMOSOMAL LOCATION**
Genetic locus: RELA (human) mapping to 11q13.1; Rela (mouse) mapping to 19A.

**SOURCE**
NFκB p65 (C-20) is available as either rabbit (sc-372) or goat (sc-372-G) affinity purified polyclonal antibody raised against a peptide mapping at the C-terminus of NFκB p65 of human origin.

**PRODUCT**
Each vial contains either 100 µg (sc-372) or 200 µg (sc-372-G) IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.2% stabilizer protein. Blocking peptide available for competition studies, sc-372 P, (100µg peptide/0.5 ml PBS containing <0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**
NFκB p65 (C-20) is recommended for detection of NFκB 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). NFκB p65 (C-20) is also recommended for detection of NFκB p65 in additional species, including equine, canine, bovine and porcine.


NFκB p65 (C-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of NFκB p65: 65 kDa.

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

**DATA**
Western blot analysis of NFκB p65 phosphorylation in untreated (A, D), TNFα and calyculin A treated (B, E) and TNFα, calyculin and lambda protein phosphatase (sc-200312A) treated (C, F) HeLa whole cell lysates. Antibodies tested include p-NFκB p65 (Ser311): sc-30039 (A, B, C) and NFκB p65 (C-20): sc-372 (D, E, F).

**SELECT PRODUCT CITATIONS**

**RESEARCH USE**
For research use only, not for use in diagnostic procedures.