

NFκB p65 (H-286): sc-7151

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 κB 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 NFκB is activated and rapidly transported from the cytoplasm to the nucleus in cells exposed to mitogens or growth factors. cDNAs encoding precursors for two distinct proteins have been described, designated p105 and p100, respectively. The p105 precursor contains p50 at its N-terminus and a C-terminal region that, when expressed as a separate molecule, designated pΔI, binds to p50 and regulates its activity.

CHROMOSOMAL LOCATION

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

SOURCE

NFκB p65 (H-286) is a rabbit polyclonal antibody raised against amino acids 1-286 of NFκB p65 of human origin.

PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-7151 X, 200 μg/0.1 ml.

APPLICATIONS

NFκB p65 (H-286) 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 (H-286) is also recommended for detection of NFκB p65 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NFκB p65 siRNA (h): sc-29410, NFκB p65 siRNA (m): sc-29411, NFκB p65 shRNA Plasmid (h): sc-29410-SH, NFκB p65 shRNA Plasmid (m): sc-29411-SH, NFκB p65 shRNA (h) Lentiviral Particles: sc-29410-V and NFκB p65 shRNA (m) Lentiviral Particles: sc-29411-V.

NFκB p65 (H-286) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

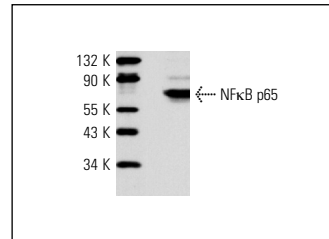
Molecular Weight of NFκB p65: 65 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, A-431 whole cell lysate: sc-2201 or K-562 whole cell lysate: sc-2203.

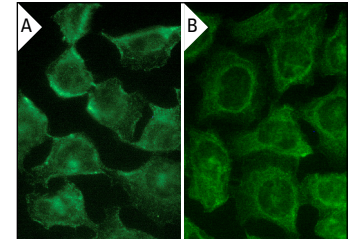
STORAGE

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

DATA



NFκB p65 (H-286): sc-7151. Western blot analysis of NFκB p65 expression in K-562 whole cell lysate.



NFκB p65 (H-286): sc-7151. Immunofluorescence staining of methanol-fixed HeLa cells (A) and HeLa cells treated with Lambda Phosphatase: sc-200312 (B).

SELECT PRODUCT CITATIONS

- Lakshminarayanan, V., et al. 2001. Reactive oxygen intermediates induce monocyte chemotactic protein-1 in vascular endothelium after brief ischemia. *Am. J. Pathol.* 159: 1301-1311.
- Ghosh, A.K., et al. 2001. A nucleoprotein complex containing CCAAT/enhancer-binding protein β interacts with an Insulin response sequence in the Insulin-like growth factor-binding protein-1 gene and contributes to Insulin-regulated gene expression. *J. Biol. Chem.* 276: 8507-8515.
- Kuo, H.P., et al. 2012. Berberine, an isoquinoline alkaloid, inhibits the metastatic potential of breast cancer cells via Akt pathway modulation. *J. Agric. Food Chem.* 60: 9649-9658.
- Kaur, J. and Tikoo, K. 2013. p300/CBP dependent hyperacetylation of histone potentiates anticancer activity of gefitinib nanoparticles. *Biochim. Biophys. Acta* 1833: 1028-1040.
- Sarmishtha, Chatterjee, et al. 2013. Regulation of autophagy in rat hepatocytes treated *in vitro* with low concentration of mercury. *Toxicol. Environ. Chem.* 95: 3.
- Chhunchha, B., et al. 2013. Curcumin abates hypoxia-induced oxidative stress based-ER stress-mediated cell death in mouse hippocampal cells (HT22) by controlling Prdx6 and NFκB regulation. *Am. J. Physiol., Cell Physiol.* 304: C636-C655.

RESEARCH USE

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


 MONOS
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Try **NFκB p65 (F-6): sc-8008** or **NFκB p65 (A-12): sc-514451**, our highly recommended monoclonal alternatives to NFκB p65 (H-286). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **NFκB p65 (F-6): sc-8008**.