NFkB p65 (G-8): sc-398442

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 NkxB (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 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 p Mandela, 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 (G-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 521-550 at the C-terminus of NFκB 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 0.2% stabilizer. Blocking peptide available for competition studies, sc-398442 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS
NFκB p65 (G-8) is recommended for detection of NFκB p65 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NFκB p65 (G-8) is also recommended for detection of NFκB p65 in additional species, including canine and porcine.


NFκB p65 (G-8) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of NFκB p65: 65 kDa.

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

SELECT PRODUCT CITATIONS
3. Yang, Z., et al. 2015. CD49f acts as an inflammation sensor to regulate differentiation, adhesion, and migration of human mesenchymal stem cells. Stem Cells 33: 2798-2810.
5. Ansari, M.A. 2017. Sinapic acid modulates Nrf2/HO-1 signaling pathway in maternal and myoepithelial cells. A. Immunoperoxidase staining of formalin fixed, paraffin-embedded human breast tissue showing cytoplasmic staining of glandular cells and myoepithelial cells. B. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing cytoplasmic staining of trophoblastic cells and decidual cells.

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

See NFκB p65 (F-6): SC-8008 for NFκB p65 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.

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