NFκB p65 (112A1021): sc-56735



The Boures to Overtion

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 NF κ B (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 B 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 NF κ B 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 of the same size have been described, designated p105 and p100, respectively. The p105 precursor contains p50 at its aminoterminus and a C-terminal region that, when expressed as a separate molecule, designated pdI, binds to p50 and regulates its activity.

REFERENCES

- 1. Meyer, R., et al. 1991. Cloning of the DNA-binding subunit of human nuclear factor κB : the level of its mRNA is strongly regulated by phorbol ester or tumor necrosis factor α . Proc. Natl. Acad. Sci. USA 88: 966-970.
- Schmid, R.M., et al. 1991. Cloning of an NFκB subunit which stimulates HIV transcription in synergy with p65. Nature 352: 733-736.

CHROMOSOMAL LOCATION

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

SOURCE

NF κ B p65 (112A1021) is a mouse monoclonal antibody raised against amino acids 526-539 of NF κ B p65 of human origin.

PRODUCT

Each vial contains 100 μg lgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

NF κ B p65 (112A1021) is recommended for detection of NF κ B p65 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

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

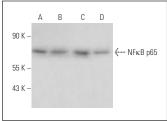
Molecular Weight of NFκB: 65 kDa.

Positive Controls: NF κ B p65 (m): 293T Lysate: sc-122027, HeLa whole cell lysate: sc-2200 or K-562 whole cell lysate: sc-2203.

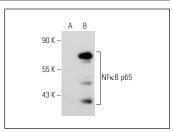
STORAGE

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

DATA







 NF_KB p65 (112A1021): sc-56735. Western blot analysis of NF_KB p65 expression in non-transfected sc-117752 (A) and mouse NF_KB p65 transfected: sc-122027 (B) 2937 whole cell Ivsates.

SELECT PRODUCT CITATIONS

- 1. Lixuan, Z., et al. 2010. Baicalin attenuates inflammation by inhibiting NF κ B activation in cigarette smoke induced inflammatory models. Pulm. Pharmacol. Ther. 23: 411-419.
- Gao, H. and Wang, J. 2016. Andrographolide inhibits multiple myeloma cells by inhibiting the TLR4/NFκB signaling pathway. Mol. Med. Rep. 13: 1827-1832.
- Patras, L., et al. 2016. Dual role of macrophages in the response of C26 colon carcinoma cells to 5-fluorouracil administration. Oncol. Lett. 12: 1183-1191.
- Yuan, B., et al. 2017. Isolation of a novel bioactive protein from an edible mushroom *Pleurotus eryngii* and its anti-inflammatory potential. Food Funct. 8: 2175-2183.
- Kotla, S., et al. 2017. Heterodimers of the transcriptional factors NFATc3 and FosB mediate tissue factor expression for 15S-hydroxyeicosatetraenoic acid-induced monocyte trafficking. J. Biol. Chem. 292: 14885-14901.
- 6. Zhang, X., et al. 2017. Imperatorin possesses notable anti-inflammatory activity *in vitro* and *in vivo* through inhibition of the NF κ B pathway. Mol. Med. Rep. 16: 8619-8626.
- Du, M., et al. 2017. Serum retinol-binding protein-induced endothelial inflammation is mediated through the activation of toll-like receptor 4. Mol. Vis. 23: 185-197.

RESEARCH USE

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



See **NF\kappaB p65 (F-6): sc-8008** for NF κ B p65 antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor[®] 488, Alexa Fluor[®] 594, Alexa Fluor[®] 647, Alexa Fluor[®] 680 and Alexa Fluor[®] 790.