

NFκB p52 (K-27): sc-298



The Power to Question

BACKGROUND

The NFκB transcription factor was originally identified as a protein complex consisting of a DNA binding subunit and an associated protein. The subunit is functionally related to c-Rel p75 and Rel B p68. The p50 subunit was initially believed to be a functionally unique protein derived from the amino-terminus of a precursor designated p105. A cDNA has been isolated that encodes an alternative DNA binding subunit of NFκB. It is synthesized as a protein that is expressed in a variety of cell types and, like p105, undergoes cleavage to generate its NFκB subunit, in this case a protein designated p52 (previously referred to as p49). In contrast to p50 derived from p105, p52 acts in synergy with p65 to stimulate the HIV enhancer in transiently transfected Jurkat cells.

CHROMOSOMAL LOCATION

Genetic locus: NFKB2 (human) mapping to 10q24.32; Nfkb2 (mouse) mapping to 19 C3.

SOURCE

NFκB p52 (K-27) is available as either rabbit (sc-298) or goat (sc-298-G) polyclonal affinity purified antibody raised against a peptide mapping within a conserved epitope of NFκB p52 of mouse origin.

PRODUCT

Each vial contains either 100 μg (sc-298) or 200 μg (sc-298-G) IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-298 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-298 X, 100 μg/0.1 ml.

APPLICATIONS

NFκB p52 (K-27) is recommended for detection of NFκB p52 and p100 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 p52 (K-27) is also recommended for detection of NFκB p52 and p100 in additional species, including equine, canine, bovine, porcine and avian.

NFκB p52 (K-27) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of NFκB p52 isoforms: 52/100 kDa.

STORAGE

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

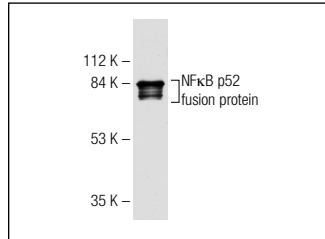
PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

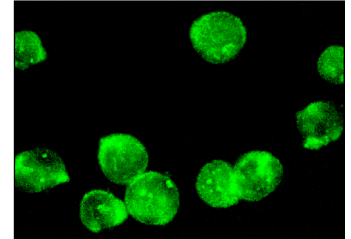
RESEARCH USE

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

DATA



NFκB p52 (K-27): sc-298. Western blot analysis of human recombinant NFκB p52 fusion protein.



NFκB p52 (K-27): sc-298. Immunofluorescence staining of methanol-fixed Jurkat cells showing cytoplasmic and nuclear staining.

SELECT PRODUCT CITATIONS

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- Mishra, A., et al. 2010. Transactivation and expression patterns of Jun and Fos/AP-1 super-family proteins in human oral cancer. *Int. J. Cancer* 126: 819-829.
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