**BACKGROUND**

The NFκB transcription factor was originally identified as a protein complex consisting of a DNA binding subunit and an associated protein. The DNA binding 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 DNA 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 (C-5) is a mouse monoclonal antibody raised against amino acids 1-447 of NFκB p52 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-7386 X, 200 µg/0.1 ml.

NFκB p52 (C-5) is available conjugated to agarose (sc-7386 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-7386 HRP), 200 µg/ml, for WB, HIC(P) and ELISA; and to either phycoerythrin (sc-7386 PE), fluorescein (sc-7386 FITC), Alexa Fluor® 488 (sc-7386 AF488) or Alexa Fluor® 647 (sc-7386 AF647), 200 µg/ml, for IF, HIC(P) and FCM.

In addition, NFκB p52 (C-5) is available conjugated to Alexa Fluor® 405 (sc-7386 AF405), 100 µg/2 ml, for IF, HIC(P) and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**APPLICATIONS**

NFκB p52 (C-5) 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 flow cytometry (1 µg per 1 x 10^6 cells).

NFκB p52 (C-5) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

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

Positive Controls: NFkB p52 (m): 293T Lysate: sc-122026, HuT 78 whole cell lysate: sc-2208 or HeLa whole cell lysate: sc-2200.

**STORAGE**

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

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our website at www.scbt.com for detailed protocols and support products.