p-NFkB p65 (49.Ser 311): sc-135769

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 slightly variations of the 10 bp 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 have been described, designated p105 and p100. The other cellular and viral enhancers. The DNA binding activity of NFκB is functionally related to c-Relp75 and NFκB transcription factor is a protein complex consisting of a DNA binding subunit and an associated protein. The DNA binding subunit, also referred to as Rel A, is functionally related to c-Rel p75 and RelB p68. NFκB p65 is phosphorylated at Serine 311 as a response to protein kinase Cζ.

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

SOURCE
p-NFκB p65 (49.Ser 311) is a mouse monoclonal antibody raised against a short amino acid sequence containing Ser 311 phosphorylated 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 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-135769 X, 200 µg/0.1 ml.

p-NFκB p65 (49.Ser 311) is available conjugated to agarose (sc-135769 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-135769 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycocerythrin (sc-135769 PE), fluorescein (sc-135769 FITC), Alexa Fluor® 488 (sc-135769 AF488), Alexa Fluor® 594 (sc-135769 AF594) or Alexa Fluor® 647 (sc-135769 AF647), 200 µg/ml, for IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-135769 AF680) or Alexa Fluor® 790 (sc-135769 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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

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 for detailed protocols and support products.

APPLICATIONS
p-NFκB p65 (49.Ser 311) is recommended for detection of Ser 311 phosphorylated NFκB p65 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).


p-NFκB p65 (49.Ser 311) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of p-NFκB p65: 65 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, AT3B-1 whole cell lysate: sc-364372 or K-562 whole cell lysate: sc-2203.

DATA

SELECT PRODUCT CITATIONS

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