

# NF-YB (FL-207): sc-13045

## BACKGROUND

The CCAAT-binding factor NF-Y is a heteromeric transcription factor that specifically binds to CCAAT sequences in many eukaryotic genes. NF-Y is made up of three subunits, NF-YA, NF-YB and NF-YC. All three components are necessary for DNA binding. In each NF-Y subunit, the segment needed for formation of the NF-Y-DNA complex is conserved from yeast to human. These conserved segments are homologous to the histone fold motif of eukaryotic histones. The DNA binding domains of the NF-YB and NF-YC subunits have been suggested to interact through a protein-protein histone fold "handshake" motif in a manner analogous to the histone proteins, H2B and H2A, respectively.

## CHROMOSOMAL LOCATION

Genetic locus: NFYB (human) mapping to 12q23.3; Nfyb (mouse) mapping to 10 C1.

## SOURCE

NF-YB (FL-207) is a rabbit polyclonal antibody raised against amino acids 1-207 representing full length NF-YB of human origin.

## PRODUCT

Each vial contains 200 µg IgG 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-13045 X, 200 µg/0.1 ml.

## APPLICATIONS

NF-YB (FL-207) is recommended for detection of NF-YB 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), 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).

NF-YB (FL-207) is also recommended for detection of NF-YB in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NF-YB siRNA (h): sc-29945, NF-YB siRNA (m): sc-29946, NF-YB shRNA Plasmid (h): sc-29945-SH, NF-YB shRNA Plasmid (m): sc-29946-SH, NF-YB shRNA (h) Lentiviral Particles: sc-29945-V and NF-YB shRNA (m) Lentiviral Particles: sc-29946-V.

NF-YB (FL-207) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of NF-YB: 32 kDa.

Positive Controls: RAW 264.7 nuclear extract: sc-24961, mouse embryo extract: sc-364239 or HEK293 whole cell lysate: sc-45136.

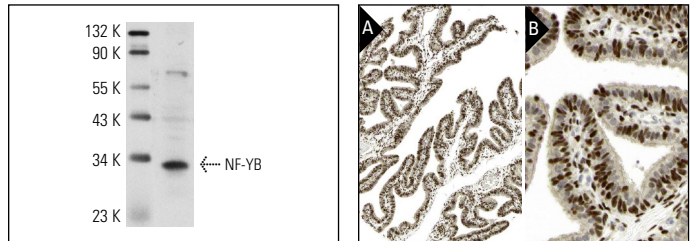
## STORAGE

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

## RESEARCH USE

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

## DATA



NF-YB (FL-207): sc-13045. Western blot analysis of NF-YB expression in RAW 264.7 nuclear extract.

NF-YB (FL-207): sc-13045. Immunoperoxidase staining of formalin fixed, paraffin-embedded human fallopian tube tissue showing nuclear staining of glandular cells at low (A) and high (B) magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

## SELECT PRODUCT CITATIONS

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Try **NF-YB (G-2): sc-376546**, our highly recommended monoclonal alternative to NF-YB (FL-207).