

NF-YC (C-19): sc-7714

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: NFYC (human) mapping to 1p34.2; Nfyc (mouse) mapping to 4 D2.2.

SOURCE

NF-YC (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of NF-YC 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-7714 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-7714 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NF-YC (C-19) is recommended for detection of NF-YC 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)] and 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).

NF-YC (C-19) is also recommended for detection of NF-YC in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NF-YC siRNA (h): sc-37733, NF-YC siRNA (m): sc-37734, NF-YC shRNA Plasmid (h): sc-37733-SH, NF-YC shRNA Plasmid (m): sc-37734-SH, NF-YC shRNA (h) Lentiviral Particles: sc-37733-V and NF-YC shRNA (m) Lentiviral Particles: sc-37734-V.

NF-YC (C-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of NF-YC: 40 kDa.

Positive Controls: K-562 nuclear extract: sc-2130, NIH/3T3 nuclear extract: sc-2138 or HeLa + PMA nuclear extract: sc-2121.

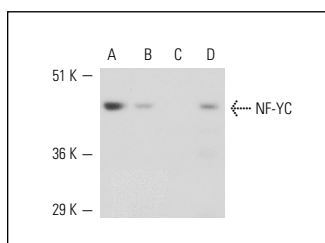
STORAGE

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-YC (C-19): sc-7714. Western blot analysis of NF-YC expression in K-562 (A), NIH/3T3 (B), untreated (C) and phorbol-treated HeLa (D) nuclear extracts.

SELECT PRODUCT CITATIONS

1. Tanabe, O., et al. 2002. An embryonic/fetal β -type globin gene repressor contains a nuclear receptor TR2/TR4 heterodimer. *EMBO J.* 21: 3434-3442.
2. Zhou, Y., et al. 2003. DNA damage-induced inhibition of securin expression is mediated by p53. *J. Biol. Chem.* 278: 462-470.
3. Takemaru, K.I., et al. 2004. Lymphoid enhancer factor-1 (LEF-1) links two hereditary leukemia syndromes through CBF α regulation of ELA2. *J. Biol. Chem.* 279: 2873-2884.
4. De Luca, A., et al. 2006. Identification and analysis of the promoter region of the human methionine sulphoxide reductase A gene. *Biochem. J.* 393: 321-329.
5. Teran-Garcia, M., et al. 2007. Polyunsaturated fatty acid suppression of fatty acid synthase (FASN): evidence for dietary modulation of NF-Y binding to the Fasn promoter by SREBP-1c. *Biochem J.* 402: 591-600.
6. Chen, S., et al. 2008. Bone morphogenetic protein 2 mediates dentin sialophosphoprotein expression and odontoblast differentiation via NF-Y signaling. *J. Biol. Chem.* 283: 19359-19370.
7. Murai-Takeda, A., et al. 2010. NF-YC functions as a corepressor of agonist-bound mineralocorticoid receptor. *J. Biol. Chem.* 285: 8084-8093.

PROTOCOLS

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



Try **NF-YC (G-12): sc-390985** or **NF-YC (C-2): sc-390861**, our highly recommended monoclonal alternatives to NF-YC (C-19).