
Anti-NF-1

Cat #: HM1234
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

NF-1 (also designated as CTF) is a CCAAT box binding proteins that stimulate DNA replication and activate transcription. Its recognition sequence is found in the genomes of a number of DNA viruses as well as in the upstream promoter region of myriad eukaryotic genes, including that of Ha-Ras, alpha-globin, hsp70, grp 78, histone H1, myelin basic protein. The NFI protein stimulates initiation of adenovirus DNA replication in vitro and is capable of stimulating the transcription of genes in cooperation with other factors, such as the estrogen receptor. NF-1 binds its consensus DNA element as a homodimer via an amino terminal DNA binding domain, and activates transcription through a putatively novel, proline-rich, carboxy terminal transactivation domain.

SPECIFICITY

This antibody specifically reacts with NF-1 of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

A synthetic peptide derived from N-terminus of human NF-1 protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

1. Jones, K.A., Kadonaga, J.T., Rosenfeld, P.J., Kelly, T.J., and Tjian, R. 1987. A cellular DNA-binding protein that activates eukaryotic transcription and DNA replication. *Cell* 48: 79-89.
2. Mermod, N., O'Neill, E.A., Kelly, T.J., and Tjian, R. 1989. The proline-rich transcriptional activator of CTF/NF-I is distinct from the replication and DNA binding domain. *Cell* 58: 741-753.
3. Santoro, C., Mermod, N., Andrews, P.C., and Tjian, R. 1988. A family of CCAAT-box-binding proteins active in transcription and DNA replication: cloning and expression of multiple cDNAs. *Nature* 334: 218-224.
4. Morgan, W.D., Williams, G.T., Morimoto, R.I., Greene, J., Kingston, R.E., and Tjian, R. 1987. Two transcriptional activators, CCAAT-box-binding transcription factor and heat shock transcription factor, interact with a human hsp70 gene promoter. *Mol. Cell. Biol.* 7: 1129-1138.
5. Wooden, S.K., Li, L.J., Navarro, D., Qadri, I., Pereira, L., and Lee, A.S. 1991. Transactivation of the grp78 promoter by malformed proteins, glycosylation block, and calcium ionophore is mediated through a proximal region containing a CCAAT motif which interacts with CTF/NF-I. *Mol. Cell. Biol.* 11: 5612-5623.
6. Dusserre, Y. and Mermod, N. 1992. Purified cofactors and histone H1 mediate transcriptional regulation by CTF/NF-I. *Mol. Cell. Biol.* 12: 5228-5237.
7. Inoue, T., Tamura, T., Furuichi, T., and Mikoshiba, K. 1990. Isolation of complementary DNAs encoding a cerebellum-enriched nuclear factor I family that activates transcription from the mouse myelin basic protein promoter. *J. Biol. Chem.* 265: 19065-19070.
8. Cardinaux, J.R., Chapel, S., and Wahli, W. 1994. Complex organization of CTF/NF-I, C/EBP, and HNF3 binding sites within the promoter of the liver-specific vitellogenin gene. *J. Biol. Chem.* 269: 32947-32956.

PRODUCT FROM HYPROMATRIX, INC.**A. AntibodyArray™s:**

1. Signal Transduction AntibodyArray™
Catalog Number HM3000
2. Apoptosis AntibodyArray™
Catalog Number HM4000
3. Cell Cycle AntibodyArray™
Catalog Number HM5000

B. Staining AntibodyArray™s

1. Staining AntibodyArray™ I
Catalog Number HM8100
2. AntibodyArray Staining Apparatus
Catalog Number HM8000

C. Antibodies**1. HRP-conjugated antibodies**

- anti-phosphotyrosine
Catalog Number HM2040
- anti-phosphoserine
Catalog Number HM2070
- anti-phosphothreonine
Catalog Number HM2090

and more...

2. Primary antibodies

Hypromatrix offers a variety of high quality antibodies. For a complete list of antibodies and their specificities, please visit our web site at www.hypromatrix.com.

CONTACT**Hypromatrix, Inc.**

100 Barber Avenue
Worcester, MA 01606
USA

Tel: 508-856-7900

Fax: 508-302-0748

Email: contact@hypromatrix.com

Web: www.hypromatrix.com