

HNF-3 γ (N-14): sc-34622

BACKGROUND

HNF-1 (α and β), HNF-3 (α , β and γ), HNF-4 (α and γ), and HNF-6 compose, in part, a homeoprotein family designated the hepatocyte nuclear factor family. The various HNF-1 isoforms regulate transcription of genes in the liver as well as in other tissues such as kidney, small intestine and thymus. HNF-3 α , HNF-3 β and HNF-3 γ regulate the transcription of numerous hepatocyte genes in adult liver. HNF-3 α and HNF-3 β have also been shown to be involved in gastrulation events such as body axis formation. HNF-4 α and HNF-4 γ have been shown to be important for early embryo development. HNF-4 α is expressed in liver, kidney, pancreas, small intestine, testis and colon; and HNF-4 γ is expressed in each of these tissues except liver. HNF-6 has been shown to bind to the promoter of HNF-3 β , which indicates a potential role of HNF-6 in gut endoderm epithelial cell differentiation. Evidence suggests that HNF-6 may also be a transcriptional activator for at least 22 other hepatocyte-enriched genes, including cytochrome P450 2C13 and α -1 antitrypsin.

REFERENCES

1. Bach, I. and Yaniv, M. 1993. More potent transcriptional activators or a transdominant inhibitor of the HNF-1 homeoprotein family are generated by alternative RNA processing. *EMBO J.* 12: 4229-4242.
2. Kaestner, K.H., Hiemisch, H., Luckow, B. and Schutz, G. 1994. The HNF-3 gene family of transcription factors in mice: gene structure, cDNA sequence, and mRNA distribution. *Genomics* 20: 377-385.
3. Drewes, T., Senkel, S., Holewa, B. and Ryffel, G.U. 1996. Human HNF-4 isoforms are encoded by distinct and differentially expressed genes. *Mol. Cell. Biol.* 16: 925-931.
4. Samadani, U. and Costa, R.H. 1996. The transcriptional activator HNF-6 regulates liver gene expression. *Mol. Cell. Biol.* 16: 6273-6284.

CHROMOSOMAL LOCATION

Genetic locus: FOXA3 (human) mapping to 19q13.32; Foxa3 (mouse) mapping to 7 A3.

SOURCE

HNF-3 γ (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of HNF-3 γ of human origin.

PRODUCT

Each vial contains 200 μ g 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-34622 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-34622 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

HNF-3 γ (N-14) is recommended for detection of HNF-3 γ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

HNF-3 γ (N-14) is also recommended for detection of HNF-3 γ in additional species, including canine, bovine and porcine.

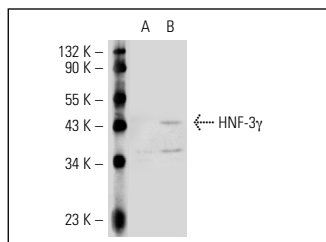
Suitable for use as control antibody for HNF-3 γ siRNA (h): sc-35571, HNF-3 γ siRNA (m): sc-35572, HNF-3 γ shRNA Plasmid (h): sc-35571-SH, HNF-3 γ shRNA Plasmid (m): sc-35572-SH, HNF-3 γ shRNA (h) Lentiviral Particles: sc-35571-V and HNF-3 γ shRNA (m) Lentiviral Particles: sc-35572-V.

HNF-3 γ (N-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of HNF-3 γ : 45 kDa.

Positive Controls: mouse embryo extract: sc-364239, HeLa whole cell lysate: sc-2200 or HNF-3 γ (h): 293 Lysate: sc-111854.

DATA



HNF-3 γ (N-14): sc-34622. Western blot analysis of HNF-3 γ expression in non-transfected: sc-110760 (**A**) and human HNF-3 γ transfected: sc-111854 (**B**) 293 whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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


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Try HNF-3 γ (A-2): sc-74424 or HNF-3 γ (D-4): sc-166703, our highly recommended monoclonal alternatives to HNF-3 γ (N-14).