SANTA CRUZ BIOTECHNOLOGY, INC.

HNF-3γ (m): 293T Lysate: sc-126959

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

REFERENCES

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5. Nakamura, T., et al. 1998. Adenovirus-transferred HNF-3γ conserves some liver functions in primary cultured hepatocytes of adult rats. Biochem. Biophys. Res. Commun. 253: 352-357.
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8. Eleswarapu, S., et al. 2005. Growth hormone regulates the expression of hepatocyte nuclear factor-3γ and other liver-enriched transcription factors in the bovine liver. J. Endocrinol. 184: 95-105.
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CHROMOSOMAL LOCATION

Genetic locus: Foxa3 (mouse) mapping to 7 A3.

PRODUCT

HNF-3γ (m): 293T Lysate represents a lysate of mouse HNF-3γ transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

HNF-3γ (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive HNF-3γ antibodies. Recommended use: 10-20 µl per lane.

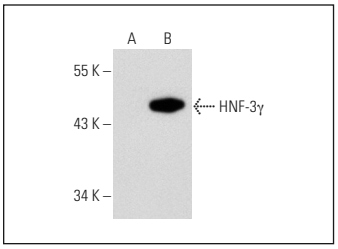
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

HNF-3γ (A-2): sc-74424 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse HNF-3γ expression in HNF-3γ transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

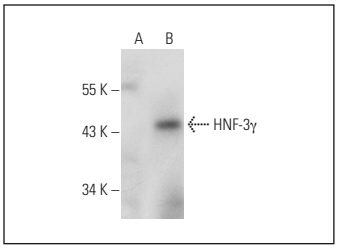
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



HNF-3γ (A-2): sc-74424. Western blot analysis of HNF-3γ expression in non-transfected: sc-117752 (**A**) and mouse HNF-3γ transfected: sc-126959 (**B**) 293T whole cell lysates.



HNF-3γ (G-2): sc-271229. Western blot analysis of HNF-3γ expression in non-transfected: sc-117752 (**A**) and mouse HNF-3γ transfected: sc-126959 (**B**) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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