

HNF-6 (H-100): sc-13050

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.

CHROMOSOMAL LOCATION

Genetic locus: ONECUT1 (human) mapping to 15q21.3; Onecut1 (mouse) mapping to 9 D.

SOURCE

HNF-6 (H-100) is a rabbit polyclonal antibody raised against amino acids 11-110 of HNF-6 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-13050 X, 200 μ g/0.1 ml.

APPLICATIONS

HNF-6 (H-100) is recommended for detection of HNF-6 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-6 (H-100) is also recommended for detection of HNF-6 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for HNF-6 siRNA (h): sc-37936, HNF-6 siRNA (m): sc-37937, HNF-6 shRNA Plasmid (h): sc-37936-SH, HNF-6 shRNA Plasmid (m): sc-37937-SH, HNF-6 shRNA (h) Lentiviral Particles: sc-37936-V and HNF-6 shRNA (m) Lentiviral Particles: sc-37937-V.

HNF-6 (H-100) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Positive Controls: HNF-6 (m2): 293T Lysate: sc-120850.

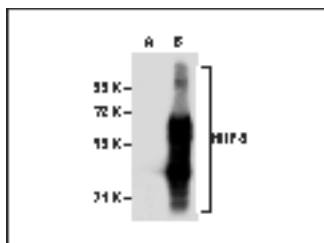
STORAGE

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



HNF-6 (H-100): sc-13050. Western blot analysis of HNF-6 expression in mouse embryonic liver (sc-117932 (2)) and rat liver HNF-6 transfectant: sc-120338 (5) 237T whole cell lysates.

SELECT PRODUCT CITATIONS

- Hatzis, P., et al. 2002. Dynamics of enhancer-promoter communication during differentiation-induced gene activation. *Mol. Cell* 10: 1467-1477.
- Wang, G.L., et al. 2007. Growth hormone corrects proliferation and transcription of phosphoenolpyruvate carboxykinase in livers of old mice via elimination of CCAAT/enhancer-binding protein α -Brm complex. *J. Biol. Chem.* 282: 1468-1478.
- Lozier, J., et al. 2008. Notch signaling regulates bile duct morphogenesis in mice. *PLoS ONE* 3: e1851.
- Lee, Y.S., et al. 2008. Orphan nuclear receptor SHP interacts with and represses hepatocyte nuclear factor-6 (HNF-6) transactivation. *Biochem. J.* 413: 559-569.
- Maehr, R., et al. 2009. Generation of pluripotent stem cells from patients with type 1 diabetes. *Proc. Natl. Acad. Sci. USA* 106: 15768-15773.
- Tomaru, Y., et al. 2009. Identification of an inter-transcription factor regulatory network in human hepatoma cells by Matrix RNAi. *Nucleic Acids Res.* 37: 1049-1060.
- Kirschner, K.M., et al. 2010. Wilms' tumour protein Wt1 stimulates transcription of the gene encoding vascular endothelial cadherin. *Pflugers Arch.* 460: 1051-1061.
- Afelik, S., et al. 2015. Wnt7b is required for epithelial progenitor growth and operates during epithelial-to-mesenchymal signaling in pancreatic development. *Dev. Biol.* 399: 204-217.

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Try **HNF-6 (G-10): sc-376167** or **HNF-6 (B-1): sc-376308**, our highly recommended monoclonal alternatives to HNF-6 (H-100).