

Product Datasheet

HNF1 Antibody - BSA Free NBP1-33596

Unit Size: 100 ul

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP1-33596

HNF1 Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS (pH 7), 20% Glycerol
Target Molecular Weight	67 kDa

Product Description

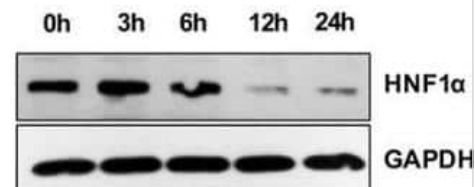
Host	Rabbit
Gene ID	6927
Gene Symbol	HNF1A
Species	Human, Mouse, Rat
Reactivity Notes	Xenopus laevis (85%).
Specificity/Sensitivity	human HNF-1 alpha protein.
Immunogen	Recombinant protein encompassing a sequence within the center region of human HNF1. The exact sequence is proprietary.

Product Application Details

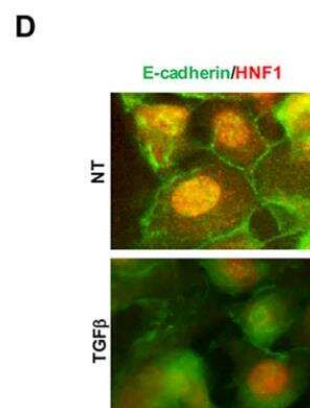
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, SDS-Page
Recommended Dilutions	Western Blot 1:1000-1:10000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000, SDS-Page
Application Notes	Use in SDS-Page reported in scientific literature (PMID:31543815).

Images

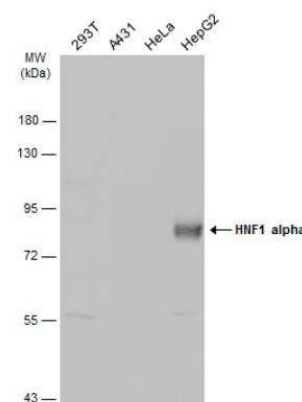
Western Blot: HNF1 Antibody [NBP1-33596] - Analysis of HNF1a transcriptional activity in hepatocytes following transforming growth factor B (TGFB) treatment. (B) Western blot analysis for HNF1a in protein extracts from hepatocytes in a time-course experiment following TGFB treatment. a-Glyceraldehyde 3-phosphate dehydrogenase was used as loading control. Magnification 20x. Image collected and cropped by CiteAb from the following publication ([frontiersin.org/article/10.3389/fphar.2019.00942/full](https://www.frontiersin.org/article/10.3389/fphar.2019.00942/full)) licensed under a CC-BY license.

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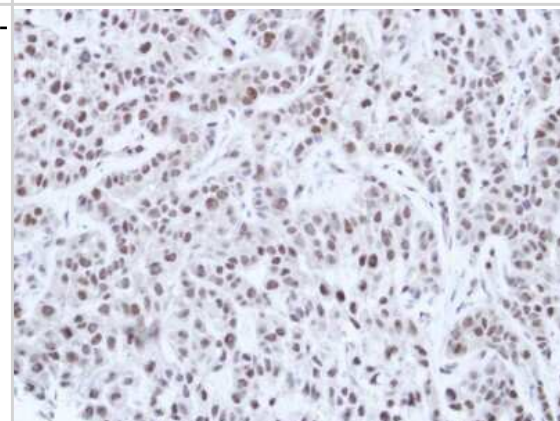
Immunocytochemistry/Immunofluorescence: HNF1 Antibody [NBP1-33596] - TGFB overrides HNF1a constitutive expression. Immunofluorescence analysis of hepatocytes transfected with pLCPX-HNF1aMyc (HNF1) or the empty vector (CTR), treated with TGFB for 24 hr or left untreated (NT). Cells were stained with anti-E-cadherin (green) or anti-HNF1a antibody (red). Magnification 20x. Image collected and cropped by CiteAb from the following publication (frontiersin.org/article/10.3389/fphar.2019.00942/full) licensed under a CC-BY license.



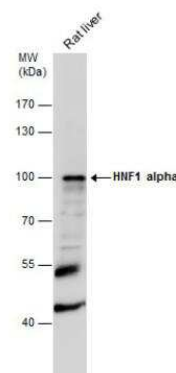
Western Blot: HNF1 Antibody [NBP1-33596] - Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with HNF1 alpha antibody [N1N3] diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



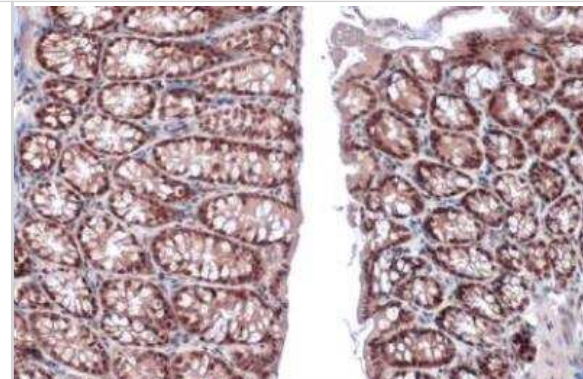
Immunohistochemistry-Paraffin: HNF1 Antibody [NBP1-33596] - Paraffin-embedded A549 Xenograft, using antibody at 1:100 dilution.



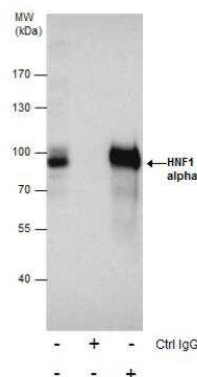
Western Blot: HNF1 Antibody [NBP1-33596] - Rat tissue extracts (50 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with HNF1 alpha antibody [N1N3] diluted at 1:1000.



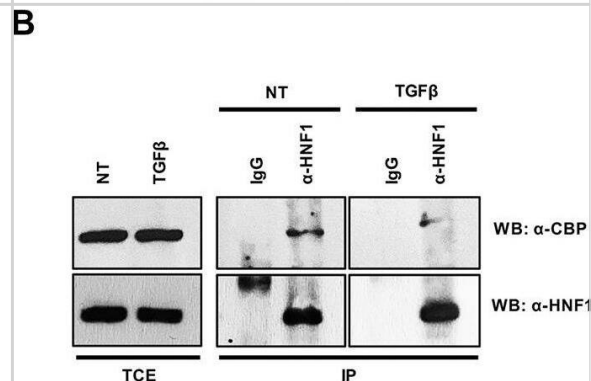
Immunohistochemistry-Paraffin: HNF1 Antibody [NBP1-33596] - detects HNF1 alpha protein at nucleus by immunohistochemical analysis.
 Sample: Paraffin-embedded mouse colon. HNF1 alpha stained by HNF1 alpha antibody [N1N3] diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



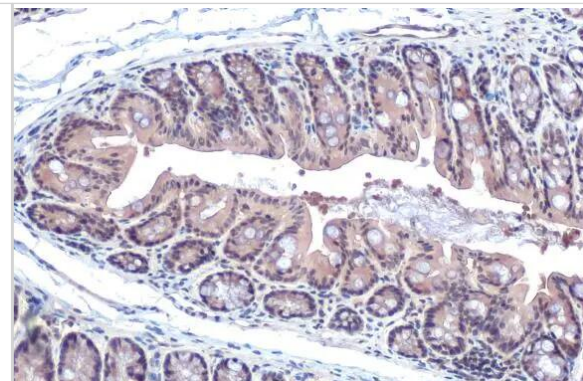
Immunoprecipitation: HNF1 Antibody [NBP1-33596] - Immunoprecipitation of HNF1 alpha protein from HepG2 whole cell extracts using 5 ug of HNF1 alpha antibody [N1N3]. Western blot analysis was performed using HNF1 alpha antibody [N1N3]. EasyBlot anti-Rabbit IgG was used as a secondary reagent.



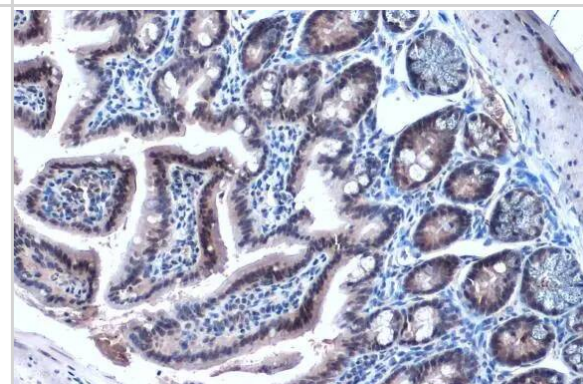
Western Blot: HNF1 Antibody [NBP1-33596] - (A) Analysis of CBP/p300 DNA binding activity after TGF β treatment. qPCR analysis of chromatin immunoprecipitated with anti-CBP/p300 antibody from hepatocytes untreated or treated with TGF β (for 5 h) was performed. HNF1 α consensus regions embedded in the indicated target gene promoters were analyzed. A HNF1 α nonbound region of Neurogenin 1 promoter was utilized as negative control. Data are normalized to total chromatin input & background (control immunoprecipitation with IgG) & expressed as % input. Mean \pm SEM of qPCR data obtained in triplicate from three independent experiments are reported. (B) In vivo coimmunoprecipitation of HNF1 α & CBP/p300 in hepatocytes untreated or treated with TGF β (for 5 h). Cells were lysed, immunoprecipitated with anti-HNF1 α antibody, & then analyzed by Western blotting with the indicated antibodies. As control, the immunoprecipitation with normal goat IgG was performed. TCE, total cell extracts. Densitometric analysis of WB data from three independent experiments is shown. (C) Analysis of HNF1 α protein PTMs following TGF β treatment. Nuclear extracts from control hepatocytes (upper panel) & HNF1 α Myc-overexpressing hepatocytes treated for 3 h with TGF β (lower panel) or left untreated (middle panel). Samples were separated by two-dimensional gel electrophoresis followed by Western blotting with anti-Myc-Tag antibody. HNF1 α -specific spots are indicated by the arrow. The appearance of multiple spots in TGF β -treated hepatocytes can be observed. **p < 0.05, **p < 0.01. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31543815>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



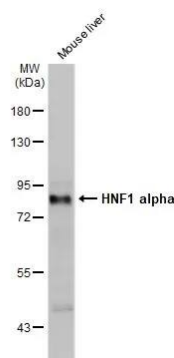
Immunohistochemistry-Paraffin: HNF1 Antibody [NBP1-33596] - HNF1 antibody [N1N3] detects HNF1 protein at cytoplasm and nucleus by immunohistochemical analysis. Sample: Paraffin-embedded mouse colon. HNF1 stained by HNF1 antibody [N1N3] (NBP1-33596) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Immunohistochemistry-Paraffin: HNF1 Antibody [NBP1-33596] - HNF1 antibody [N1N3] detects HNF1 protein at nucleus by immunohistochemical analysis. Sample: Paraffin-embedded mouse intestine. HNF1 stained by HNF1 antibody [N1N3] (NBP1-33596) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Western Blot: HNF1 Antibody [NBP1-33596] - Mouse tissue extract (50 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with HNF1 antibody [N1N3] (NBP1-33596) diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



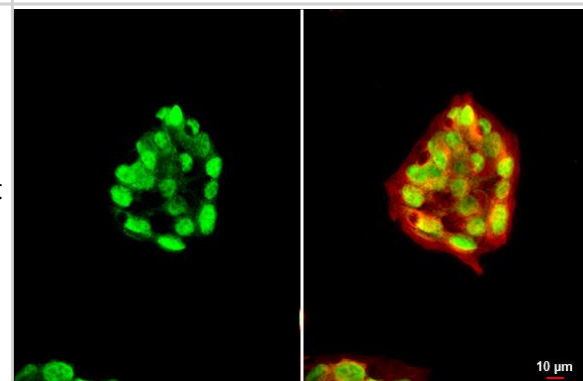
Immunocytochemistry/ Immunofluorescence: HNF1 Antibody [NBP1-33596] - HNF1 antibody [N1N3] detects HNF1 protein at nucleus by immunofluorescent analysis.

Sample: HepG2 cells were fixed in 4% paraformaldehyde at RT for 15 min.

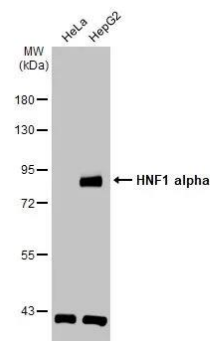
Green: HNF1 stained by HNF1 antibody [N1N3] (NBP1-33596) diluted at 1:500.

Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] diluted at 1:1000.

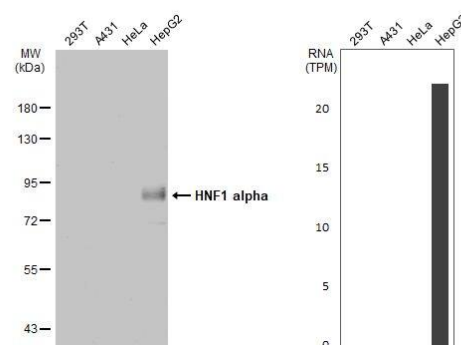
Scale bar= 10um.



Western Blot: HNF1 Antibody [NBP1-33596] - Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with HNF1 antibody [N1N3] (NBP1-33596) diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Western Blot: HNF1 Antibody [NBP1-33596] - Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with HNF1 alpha antibody [N1N3] diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



Publications

Battistelli C, Garbo S, Riccioni V et al. Design and Functional Validation of a Mutant Variant of the LncRNA HOTAIR to Counteract Snail Function in Epithelial-to-Mesenchymal Transition Cancer Research 2021-01-01 [PMID: 33158813] (Western Blot)

Wang CC, Lin CH, Chou HW et al. Compensatory Increase of Serum Hepassocin Protects Hyperthyroidism-Induced Hepatic Dysfunction Biomedicines 2023-07-07 [PMID: 37509575] (WB, Human)

Riccioni V, Trionfetti F, Montaldo C et al. SYNCRIP Modulates the Epithelial-Mesenchymal Transition in Hepatocytes and HCC Cells International journal of molecular sciences 2022-01-14 [PMID: 35055098] (WB, Mouse)

Bisceglia F, Battistelli C, Noce V, et al. TGF beta Impairs HNF1 alpha Functional Activity in Epithelial-to-Mesenchymal Transition Interfering With the Recruitment of CBP/p300 Acetyltransferases. Front Pharmacol 2019-08-30 [PMID: 31543815] (PAGE, ICC/IF, WB, Mouse, Rat)

Yasui K, Miyoshi N, Tababe H et al. Effects of oolong tea on gene expression of gluconeogenic enzymes in the mouse liver and in rat hepatoma H4IIE cells. J Med Food 2011-09-01 [PMID: 21812644] (WB, Human)

Yasui K, Tanabe H, Miyoshi N et al. Effects of (-)-epigallocatechin-3-O-gallate on expression of gluconeogenesis-related genes in the mouse duodenum. Biomed Res 2011-10-01 [PMID: 22033300] (WB, Human)



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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
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NBP2-38243PEP	HNF1 Recombinant Protein Antigen

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