

# Product Datasheet

## HNF-4 alpha/NR2A1 Antibody NB100-1783

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NB100-1783****HNF-4 alpha/NR2A1 Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

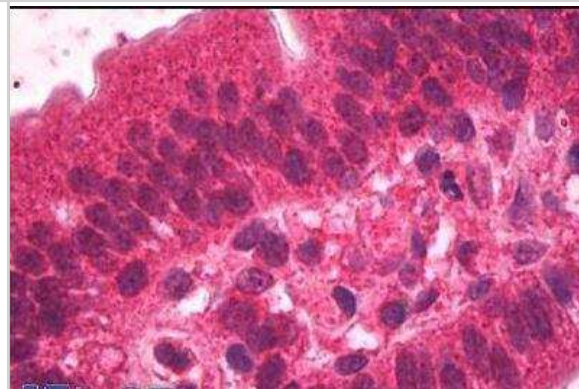
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Goat HNF-4 alpha/NR2A1 Antibody (NB100-1783) is a polyclonal antibody validated for use in IHC, WB, ELISA and CHIP. Anti-HNF-4 alpha/NR2A1 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Goat
<b>Gene ID</b>	3172
<b>Gene Symbol</b>	HNF4A
<b>Species</b>	Human, Primate
<b>Reactivity Notes</b>	Primate reactivity reported in scientific literature (PMID18561282).
<b>Specificity/Sensitivity</b>	This antibody is expected to recognise the reported isoforms a, b and c (NP_849180.1; NP_000448.3; NP_849181.1 resp.).
<b>Immunogen</b>	Peptide with sequence RLSKTLVDMDMADY-C corresponding to N-Terminus according to NP_849180.1, NP_000448.3, NP_849181.1.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Peptide ELISA
<b>Recommended Dilutions</b>	Western Blot 0.1-0.5 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 2 ug/ml, Peptide ELISA Detection limit 1:32000
<b>Application Notes</b>	WB: Approx 55kDa and 48kDa bands observed in lysates of cell line HepG2 (calculated MW of 52.8kDa according to Human NP_000448.3 , 46.6kDa according to Human NP_849181.1). Primary incubation was 1 hour.



## Images

Immunohistochemistry-Paraffin: HNF-4 alpha/NR2A1 Antibody [NB100-1783] - Staining of Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot: HNF-4 alpha/NR2A1 Antibody [NB100-1783] - (0.1ug/ml) staining of HepG2 lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

250kDa  
150kDa  
100kDa  
75kDa  
50kDa  
37kDa  
25kDa  
20kDa  
15kDa  
10kDa

## Publications

Clark AJ, Saade MC, Vemireddy V et al. Hepatocyte nuclear factor 4 $\alpha$  mediated quinolinate phosphoribosyltransferase (QPRT) expression in the kidney facilitates resilience against acute kidney injury *Kidney international* 2023-09-30 [PMID: 37783445]

Clark A, Saade M, Vemireddy V et al. HNF4 $\alpha$  mediated QPRT expression in the kidney facilitates resilience against acute kidney injury *bioRxiv* 2023-05-25 (ChIP, Mouse)

Damcott CM, Hoppman N, Ott SH et al. Polymorphisms in both promoters of hepatocyte nuclear factor 4-alpha are associated with type 2 diabetes in the Amish. *Diabetes* 2004-12-01 [PMID: 15561969]

Huang J, Levitsky LL, Rhoads DB et al. Novel P2 promoter-derived HNF4alpha isoforms with different N-terminus generated by alternate exon insertion. *Exp Cell Res* 2009-04-15 [PMID: 19353766]

Huang J, Karakucuk V, Levitsky LL et al. Expression of HNF4alpha variants in pancreatic islets and Ins-1 beta cells. *Diabetes Metab Res Rev* 2008-10-01 [PMID: 18561282] (WB, Primate)

Wang SH, Yeh SH, Lin WH, Yeh KH, Yuan Q, Xia NS, Chen DS, Chen PJ. Estrogen Receptor alpha Represses Transcription of HBV Genes via Interaction With Hepatocyte Nuclear Factor 4alpha. *Gastroenterology*;142(4):989-998. 2012-04-01 [PMID: 22240483] (WB, Human)



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### **Products Related to NB100-1783**

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NB820-59242	Human Lymph Node Whole Tissue Lysate (Adult Whole Normal)
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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