

**Goat Anti-HNF4A Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1535a

## Specification

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### Goat Anti-HNF4A Antibody - Product Information

Application	WB, IHC
Primary Accession	<a href="#">P41235</a>
Other Accession	<a href="#">NP_849181</a> , <a href="#">3172</a>
Reactivity	Human
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	52785

### Goat Anti-HNF4A Antibody - Additional Information

**Gene ID** 3172

#### Other Names

Hepatocyte nuclear factor 4-alpha, HNF-4-alpha, Nuclear receptor subfamily 2 group A member 1, Transcription factor 14, TCF-14, Transcription factor HNF-4, HNF4A, HNF4, NR2A1, TCF14

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat Anti-HNF4A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-HNF4A Antibody - Protein Information

**Name** HNF4A

**Synonyms** HNF4, NR2A1, TCF14

#### Function

Transcriptional regulator which controls the expression of hepatic genes during the transition of endodermal cells to hepatic progenitor cells, facilitating the recruitment of RNA pol II to the promoters of target genes (PubMed: <a href="http://www.uniprot.org/citations/30597922">

target="\_blank">30597922</a>). Activates the transcription of CYP2C38 (By similarity). Represses the CLOCK-BMAL1 transcriptional activity and is essential for circadian rhythm maintenance and period regulation in the liver and colon cells (PubMed:<a href="http://www.uniprot.org/citations/30530698" target="\_blank">30530698</a>).

#### Cellular Location

Nucleus.

#### Goat Anti-HNF4A Antibody - Protocols

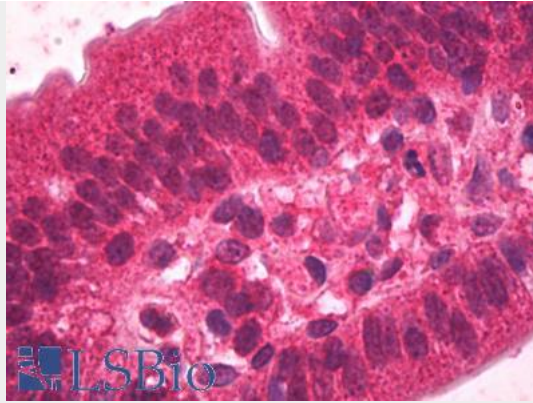
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Goat Anti-HNF4A Antibody - Images



EB06700 (0.1µg/ml) staining of HepG2 lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB06700 (2µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

### **Goat Anti-HNF4A Antibody - Background**

The protein encoded by this gene is a nuclear transcription factor which binds DNA as a homodimer. The encoded protein controls the expression of several genes, including hepatocyte nuclear factor 1 alpha, a transcription factor which regulates the expression of several hepatic genes. This gene may play a role in development of the liver, kidney, and intestines. Mutations in this gene have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I. Alternative splicing of this gene results in multiple transcript variants.

### **Goat Anti-HNF4A Antibody - References**

COMMON VARIANTS IN 40 GENES ASSESSED FOR DIABETES INCIDENCE AND RESPONSE TO METFORMIN AND LIFESTYLE INTERVENTIONS IN THE DIABETES PREVENTION PROGRAM. Jablonski KA, et al. *Diabetes*, 2010 Aug 3. PMID 20682687.

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086.

Variants in hepatocyte nuclear factor 4alpha gene promoter region and type 2 diabetes risk in Chinese. Chen Z, et al. *Exp Biol Med (Maywood)*, 2010 Jul. PMID 20558840.

The ERK1/2-hepatocyte nuclear factor 4alpha axis regulates human ABCC6 gene expression in hepatocytes. de Boussac H, et al. *J Biol Chem*, 2010 Jul 23. PMID 20463007.

Combining genetic markers and clinical risk factors improves the risk assessment of impaired glucose metabolism. Ruchat SM, et al. *Ann Med*, 2010 Apr. PMID 20384434.