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# NR5A2 / LRH1 Antibody (internal region)

**Peptide-affinity purified goat antibody**
**Catalog # AF4048a**

## Specification

### NR5A2 / LRH1 Antibody (internal region) - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | O00482 |
| Other Accession | NP_995582.1, NP_003813.1, 2494, 26424 (mouse), 60349 (rat) |
| Reactivity | **Human** |
| Predicted | **Mouse, Rat, Pig, Dog, Cow** |
| Host | **Goat** |
| Clonality | **Polyclonal** |
| Concentration | **0.5 mg/ml** |
| Isotype | **IgG** |
| Calculated MW | **61331** |

### NR5A2 / LRH1 Antibody (internal region) - Additional Information

**Gene ID** 2494

**Other Names**
Nuclear receptor subfamily 5 group A member 2, Alpha-1-fetoprotein transcription factor, B1-binding factor, hB1F, CYP7A promoter-binding factor, Hepatocytic transcription factor, Liver receptor homolog 1, LRH-1, NR5A2, B1F, CPF, FTF

**Format**
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 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**
NR5A2 / LRH1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

### NR5A2 / LRH1 Antibody (internal region) - Protein Information

**Name** NR5A2

**Synonyms** B1F, CPF, FTF

**Function**
Nuclear receptor that acts as a key metabolic sensor by regulating the expression of genes involved in bile acid synthesis, cholesterol homeostasis and triglyceride synthesis. Together with

the oxysterol receptors NR1H3/LXR-alpha and NR1H2/LXR-beta, acts as an essential transcriptional regulator of lipid metabolism. Plays an anti- inflammatory role during the hepatic acute phase response by acting as a corepressor: inhibits the hepatic acute phase response by preventing dissociation of the N-Cor corepressor complex (PubMed:<a href="http://www.uniprot.org/citations/20159957" target="_blank">20159957</a>). May be responsible for the liver-specific activity of enhancer II, probably in combination with other hepatocyte transcription factors. Key regulator of cholesterol 7-alpha-hydroxylase gene (CYP7A) expression in liver. May also contribute to the regulation of pancreas-specific genes and play important roles in embryonic development. Activates the transcription of CYP2C38 (By similarity).

**Cellular Location**
Nucleus.

**Tissue Location**
Abundantly expressed in pancreas, less in liver, very low levels in heart and lung. Expressed in the Hep-G2 cell line Isoform 1 and isoform 2 seem to be present in fetal and adult liver and Hep-G2 cells

## NR5A2 / LRH1 Antibody (internal region) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## NR5A2 / LRH1 Antibody (internal region) - Images


AF4048a (1 µg/ml) staining of HepG2 nuclear lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## NR5A2 / LRH1 Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_995582.1; NP_003813.1).

**NR5A2 / LRH1 Antibody (internal region) - References**

Structural basis of coactivation of liver receptor homolog-1 by ?-catenin. Yumoto F, Nguyen P, Sablin EP, Baxter JD, Webb P, Fletterick RJ. Proc Natl Acad Sci U S A. 2012 Jan 3;109(1):143-8. PMID: 22187462