**Product Name:** **HNF-4α/γ Rabbit Polyclonal Antibody**
**Catalog #:** **APRab12132**
For research use only.

## Summary

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|---|---|
| **Description** | Rabbit polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | WB,IHC,ICC/IF,ELISA |
| **Reactivity** | Human,Mouse,Rat |
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Concentration** | 1mg/ml |
| **Storage** | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| **Shipping** | Ice bags |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Application

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|---|---|
| **Dilution Ratio** | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000 |
| **Molecular Weight** | 52kDa |

## Antigen Information

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|---|---|
| **Gene Name** | HNF4A/HNF4G |
| **Alternative Names** | HNF4A; HNF4; NR2A1; TCF14; 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; HNF4G; NR2A2; Hepatocyte nuclear factor 4-gamma; HNF-4-ga |
| **Gene ID** | 3172/3174 |
| **SwissProt ID** | P41235/Q14541 |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human HNF4 alpha/gamma. AA range:91-140 |

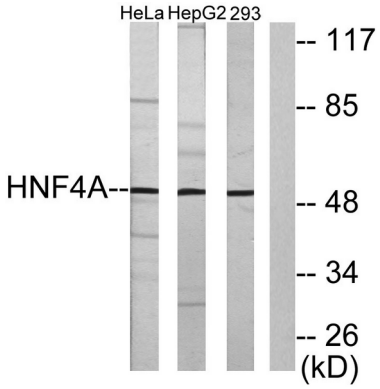
## Background

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 encoding several different isoforms. [provided by RefSeq, Apr 2012],alternative products:Additional isoforms seem to exist,disease:Defects in HNF4A are the cause of maturity onset diabetes of the young type 1 (MODY1) [MIM:125850]; also shortened MODY-1. MODY [MIM:606391] is a form of diabetes that is characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age) and a primary defect in insulin secretion. The clinical phenotype of MODY1 is characterized by severe insulin secretory defects, and by major hyperglycemia associated with microvascular complications.,function:Transcriptionally controlled transcription factor. Binds to DNA sites required for the transcription of alpha 1-antitrypsin, apolipoprotein CIII, transthyretin genes and HNF1-alpha. May be essential for development of the liver, kidney and intestine.,miscellaneous:Binds fatty acids.,online information:Hepatocyte nuclear factors entry,PTM:Phosphorylated on tyrosine residue(s); phosphorylation is important for its DNA-binding activity. Phosphorylation may directly or indirectly play a regulatory role in the subnuclear distribution.,similarity:Belongs to the nuclear hormone receptor family.,similarity:Belongs to the nuclear hormone receptor family. NR2 subfamily.,similarity:Contains 1 nuclear receptor DNA-binding domain.,subunit:Homodimerization is required for HNF4-alpha to bind to its recognition site.,

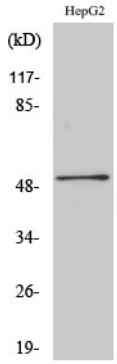
## Research Area

Stem cell pathway; AMPK; Protein_Acetylation

## Image Data




Western blot analysis of lysates from HepG2, HeLa, and 293 cells, using HNF4 alpha/gamma Antibody. The lane on the right is blocked with the synthesized peptide.




Western Blot analysis of various cells using HNF-4α/γ Polyclonal Antibody