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# HNF4A Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9435a

## Product Information

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|---|---|
| **Application** | WB, IF, E |
| **Primary Accession** | P41235 |
| **Other Accession** | Q9WUU6, Q14541, Q91766, P22449, P49698 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Xenopus, Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB17744 |
| **Calculated MW** | 52785 |
| **Antigen Region** | 107-139 |

## Additional Information

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| **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 |
| **Target/Specificity** | This HNF4A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 107-139 amino acids from the N-terminal region of human HNF4A. |
| **Dilution** | WB~~1:1000 IF~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | HNF4A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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:30597922). 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:30530698).

**Cellular Location** Nucleus.

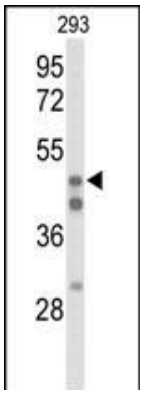
## Background

HNF4A 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.

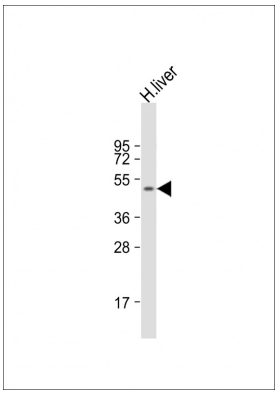
## References


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Guo, H., et al. Biochem. J. 394 (PT 2), 379-387 (2006)
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## Images

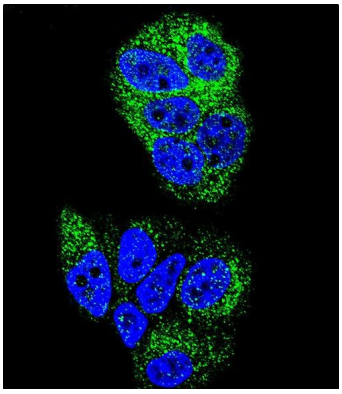



Western blot analysis of HNF4A Antibody (N-term) (Cat. #AP9435a) in 293 cell line lysates (35ug/lane). HNF4A (arrow) was detected using the purified Pab.




Anti-HNF4A Antibody (N-term) at 1:1000 dilution + human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Confocal immunofluorescent analysis of HNF4A Antibody (N-term)(Cat#AP9435a) with MCF-7 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.