

Anti-HNF-4-Alpha Picoband Antibody
Catalog # ABO11906**Specification**

Anti-HNF-4-Alpha Picoband Antibody - Product Information

Application	WB, IHC
Primary Accession	P41235
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Hepatocyte nuclear factor 4-alpha(HNF4A) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-HNF-4-Alpha Picoband 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

Calculated MW

52785 MW KDa

Application Details

Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Mouse, Rat,
-
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By
Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Nucleus.

Protein Name

Hepatocyte nuclear factor 4-alpha

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E.coli-derived human HNF-4-alpha recombinant protein (Position: Q164-I474). Human HNF-4-alpha shares 95% and 96% amino acid (aa) sequences identity with mouse and rat HNF-4-alpha, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the nuclear hormone receptor family. NR2 subfamily.

Anti-HNF-4-Alpha Picoband 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: [30597922](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/30530698)).

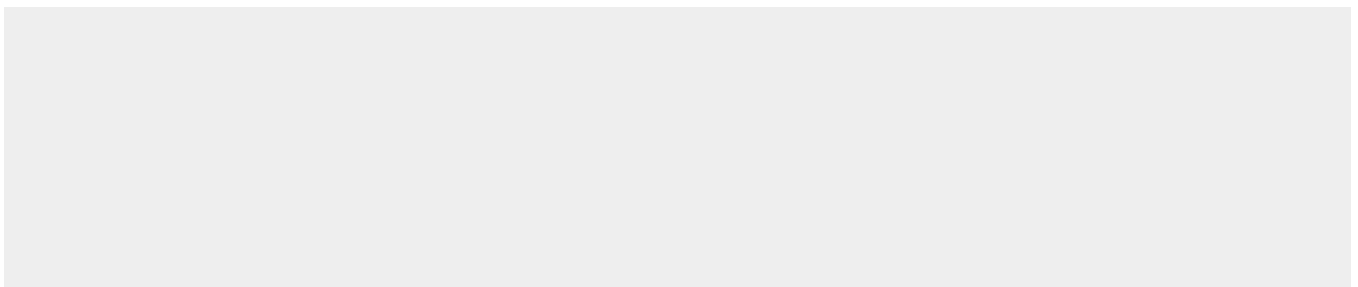
Cellular Location

Nucleus.

Anti-HNF-4-Alpha Picoband Antibody - Protocols

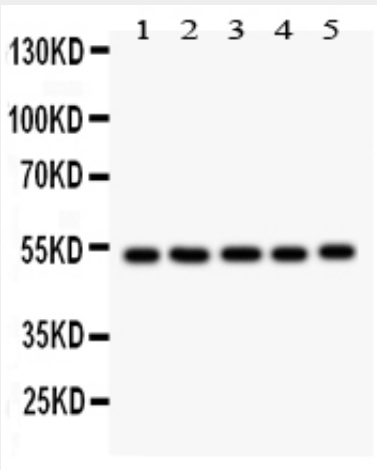
Provided below are standard protocols that you may find useful for product applications.

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

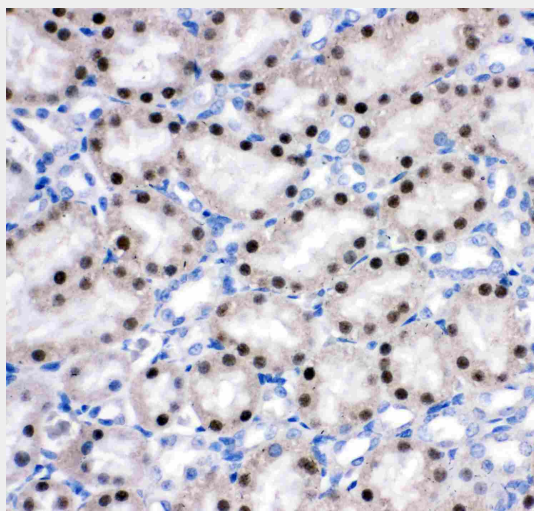
Anti-HNF-4-Alpha Picoband Antibody - Images

100KD —
70KD —
55KD —
35KD —
25KD —
15KD —

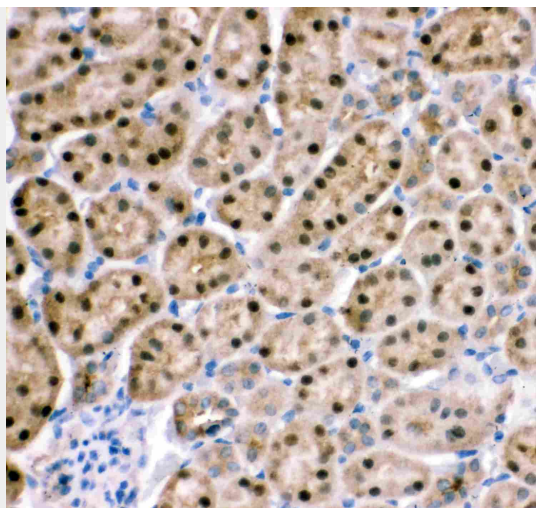
Anti- HNF-4-alpha antibody, ABO11906, Western blotting All lanes: Anti HNF-4-alpha (ABO11906) at 0.5ug/ml WB: Recombinant Human HNF-4-alpha Protein 0.5ng Predicted bind size: 38KD Observed bind size: 38KD



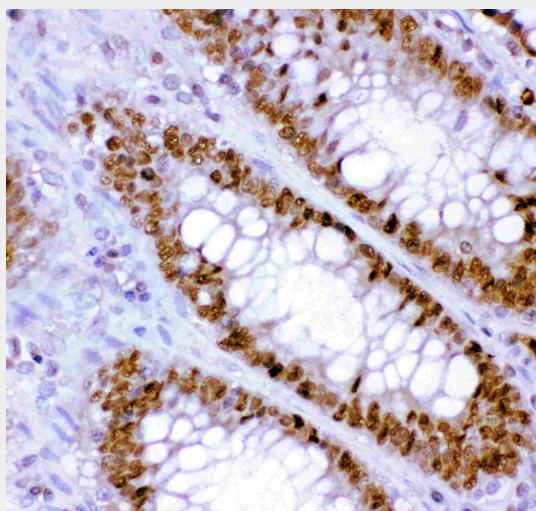
Anti- HNF-4-alpha antibody, ABO11906, Western blotting All lanes: Anti HNF-4-alpha (ABO11906) at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Rat Kidney Tissue Lysate at 50ug Lane 3: RH35 Whole Cell Lysate at 40ug Lane 4: HELA Whole Cell Lysate at 40ug Lane 5: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 53KD Observed bind size: 53KD



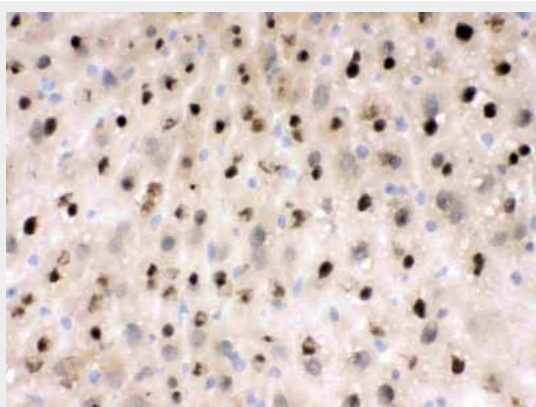
Anti- HNF-4-alpha antibody, ABO11906, IHC(P) IHC(P): Rat Kidney Tissue



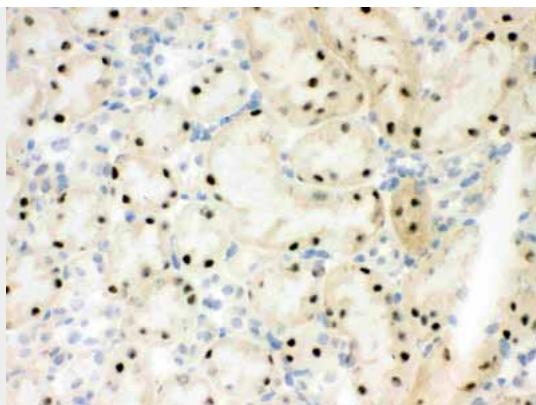
Anti- HNF-4-alpha antibody, ABO11906, IHC(P)IHC(P): Mouse Kidney Tissue



Anti- HNF-4-alpha antibody, ABO11906, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti- HNF-4-alpha antibody, ABO11906, IHC(F)IHC(F): Mouse Liver Tissue



Anti- HNF-4-alpha antibody, ABO11906, IHC(F)IHC(F): Rat Kindey Tissue

Anti-HNF-4-Alpha Picoband Antibody - Background

Hepatocyte nuclear factor 4 alpha (HNF4A), also known as NR2A1, is a nuclear receptor that in humans is encoded by the HNF4A gene. It is mapped to 20q13.12. HNF4A is a nuclear transcription factor that 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 plays a role in development of the liver, kidney, and intestines. HNF4A is required for the PXR and CAR-mediated transcriptional activation of CYP3A4. This gene also plays a pivotal role in the expression and synthesis of SHBG, an important glycoprotein made primarily in the liver, which in addition to lowering insulin-resistance also serves in reducing levels of free Oestrogen as-well as prolonging the half-life of Testosterone.