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HNF4A Rabbit mAb

Catalog No.: A29271 Recombinant

Basic Information

Observed MW
53 kDa

Calculated MW
44-56 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,ChIP,ELISA

Cross-Reactivity
Human

CloneNo number
ARC3728

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.

Recommended Dilutions

WB	1:2000 - 1:10000
IP	0.5 μg - 4 μg antibody for 400 μg - 600 μg extracts of whole cells
IF/ICC	1:200 - 1:800
ChIP	2 μg antibody for 10 μg - 15 μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
3172

Swiss Prot
P41235

Immunogen
This information is considered to be commercially sensitive.

Synonyms
TCF; HNF4; MODY; FRTS4; MODY1; NR2A1; TCF14; HNF4a7; HNF4a8; HNF4a9; NR2A21; TCF-14; HNF4alpha

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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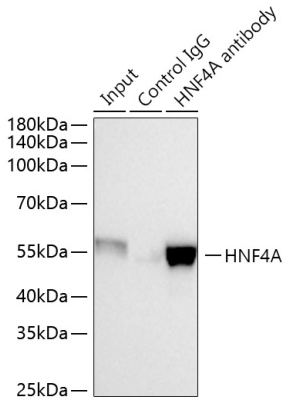
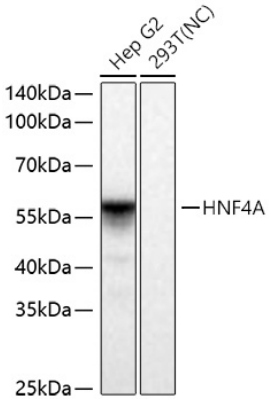
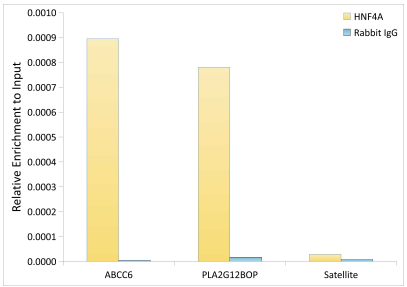
Validation Data



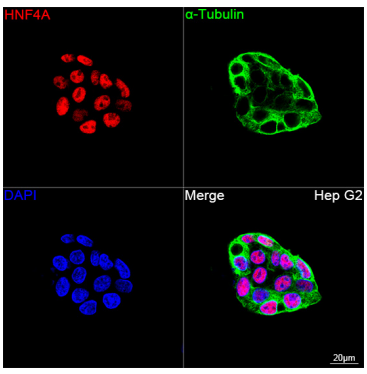
Immunoprecipitation of HNF4A from 400 µg extracts of Hep G2 cells was performed using 0.5 µg of HNF4A Rabbit mAb (A29271). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using HNF4A Rabbit mAb (A29271) at a dilution of 1:5000.



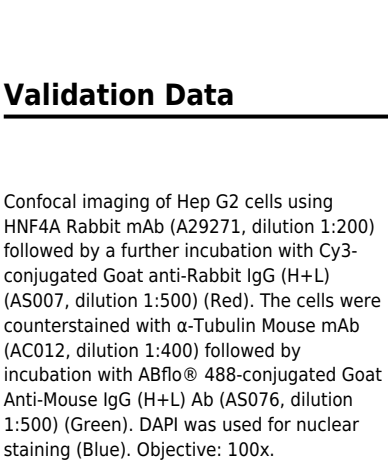
Western blot analysis of various lysates using HNF4A Rabbit mAb (A29271) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): 293T.
Exposure time: 1 s.



Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from Hep G2 cells, using 2 µg of HNF4A Rabbit mAb (A29271) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Validation Data



Confocal imaging of Hep G2 cells using HNF4A Rabbit mAb (A29271, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.