

Anti-HNF4A Antibody (9K339)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human, Rat
Conjugation:	Unconjugated
Clone:	9K339
Purification:	Affinity-chromatography

Applications

1. Western Blot

- Positive WB detected in: HL-60 whole cell lysate, Rat Liver tissue lysate,
- All lanes: HNF-4-alpha antibody at 1:1000
- Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
- Predicted band size: 52 kDa
- Observed band size: 52 kDa

2. IHC image of TMAH-00562 diluted at 1:50 and staining in paraffin-embedded human gastric cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.75% DAB.

Verified Activity:

3. Immunofluorescence staining of MCF-7 with TMAH-00562 at 1:20, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 526-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

4. Overlay Peak curve showing HepG2 cells stained with TMAH-00562 (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Application: ELISA, WB, IHC, IF, FCM

Recommended WB:1:500-1:2000; IHC:1:50-1:200; IF:1:50-1:200; FCM:1:50-1:200.

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human HNF4A
Antigen Species:	Human
Gene ID:	3172
Uniprot ID:	P41235
Biology Area:	Epigenetics and Nuclear Signaling, Cancer, Cardiovascular, Developmental biology, Metabolism, Signal transduction

Research Background

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. Activates the transcription of CYP2C38. Represses the CLOCK-ARNTL/BMAL1 transcriptional activity and is essential for circadian rhythm maintenance and period regulation in the liver and colon cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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