

**Anti-HNF4 alpha (pS313) Antibody**  
**Rabbit polyclonal antibody to HNF4 alpha (pS313)**  
**Catalog # AP60014****Specification**

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**Anti-HNF4 alpha (pS313) Antibody - Product Information**

Application	<b>WB, IF, E</b>
Primary Accession	<a href="#">P41235</a>
Other Accession	<a href="#">P49698</a>
Reactivity	<b>Human, Mouse, Rat, Monkey, Pig, Bovine</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>52785</b>

**Anti-HNF4 alpha (pS313) Antibody - Additional Information****Gene ID** 3172**Other Names**

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

**Target/Specificity**

Recognizes endogenous levels of HNF4 alpha (pS313) protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

IF~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

E~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-HNF4 alpha (pS313) 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: <http://www.uniprot.org/citations/30597922> target="\_blank">30597922</a>). 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:<a href="http://www.uniprot.org/citations/30530698" target="\_blank">30530698</a>).

#### Cellular Location

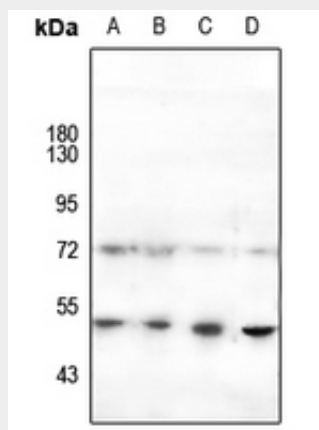
Nucleus.

#### Anti-HNF4 alpha (pS313) Antibody - Protocols

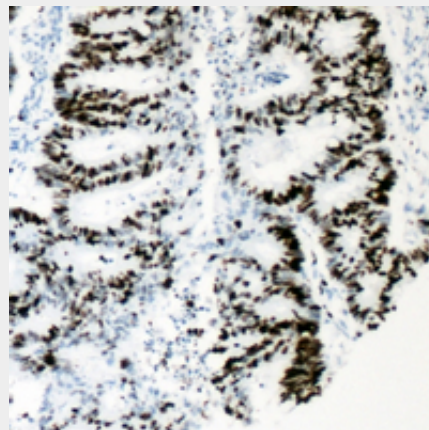
Provided below are standard protocols that you may find useful for product applications.

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

#### Anti-HNF4 alpha (pS313) Antibody - Images

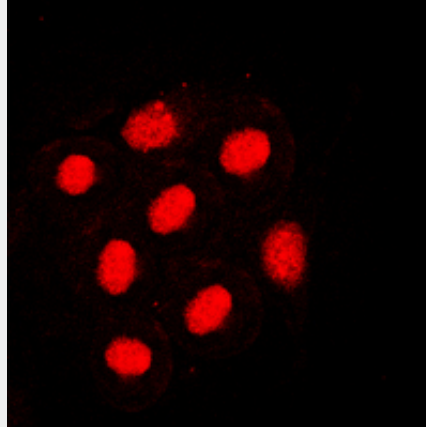


Western blot analysis of HNF4 alpha (pS313) expression in HepG2 (A), LO2 (B), C6 (C), CY26 (D) whole cell lysates.

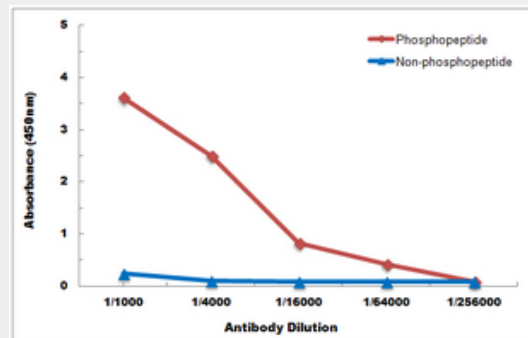


Immunohistochemical analysis of HNF4 alpha (pS313) staining in human colon cancer formalin

fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of HNF4 alpha (pS313) staining in SW480 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.



Direct ELISA antibody dose-response curve using Anti-HNF4 alpha (pS313) Antibody. Antigen (phosphopeptide and non-phosphopeptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.

### Anti-HNF4 alpha (pS313) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HNF4 alpha (pS313). The exact sequence is proprietary.

### Anti-HNF4 alpha (pS313) Antibody - Citations

- [Enhanced Expression of ARK5 in Hepatic Stellate Cell and Hepatocyte Synergistically Promote Liver Fibrosis](#)