

## HNF-4 $\alpha$ (Phospho Ser313) Rabbit pAb

CatalogNo: YP0951 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 52kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**IF 1:200-1:1000**

**ELISA 1:20000**

Not yet tested in other applications.

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human HNF4 alpha around the phosphorylation site of Ser313. AA range:280-329

## Specificity

Phospho-HNF4- $\alpha$  (S313) Polyclonal Antibody detects endogenous levels of HNF4- $\alpha$  protein only when phosphorylated at S313. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):LRsQV

## Target Information

**Gene name** HNF4A HNF4 NR2A1 TCF14

**Protein Name** Hepatocyte nuclear factor 4-alpha

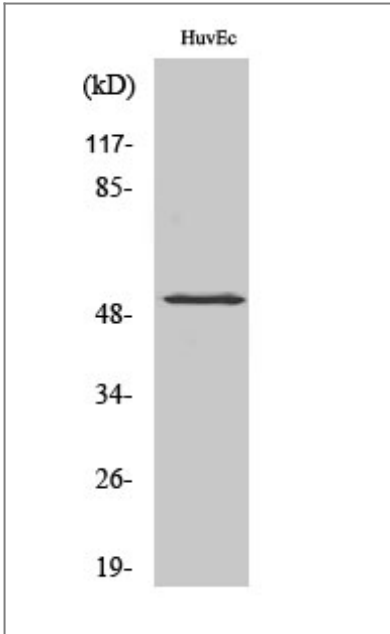
Organism	Gene ID	UniProt ID
Human	<a href="#">3172</a> ;	<a href="#">P41235</a> ;
Mouse	<a href="#">15378</a> ;	<a href="#">P49698</a> ;
Rat	<a href="#">25735</a> ;	<a href="#">P22449</a> ;

**Cellular Localization** Nucleus.

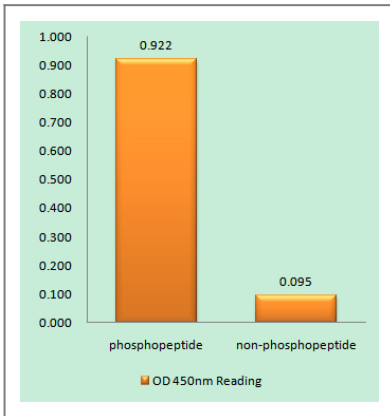
**Tissue specificity** Kidney ,Liver ,

**Function** Alternative products:Additional isoforms seem to exist ,Disease:Defects in HNF4A are the cause of maturity onset diabetes of the young type 1 (MODY1) [MIM:125850]; also shortened MODY-1. MODY [MIM:606391] is a form of diabetes that is characterized by an autosomal dominant mode of inheritance , onset in childhood or early adulthood (usually before 25 years of age) and a primary defect in insulin secretion. The clinical phenotype of MODY1 is characterized by severe insulin secretory defects , and by major hyperglycemia associated with microvascular complications. ,Function:Transcriptionally controlled transcription factor. Binds to DNA sites required for the transcription of alpha 1-antitrypsin , apolipoprotein CIII , transthyretin genes and HNF1-alpha. May be essential for development of the liver , kidney and intestine. ,miscellaneous:Binds fatty acids. ,online information:Hepatocyte nuclear factors entry ,PTM:Phosphorylated on tyrosine residue (s) ; phosphorylation is important for its DNA-binding activity. Phosphorylation may directly or indirectly play a regulatory role in the subnuclear distribution. ,similarity:Belongs to the nuclear hormone receptor family. ,similarity:Belongs to the nuclear hormone receptor family. NR2 subfamily. ,similarity:Contains 1 nuclear receptor DNA-binding domain. ,subunit:Homodimerization is required for HNF4-alpha to bind to its recognition site. ,

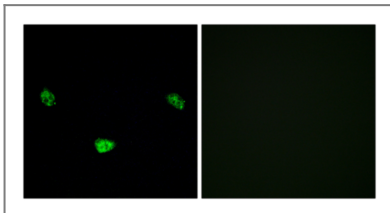
## Validation Data



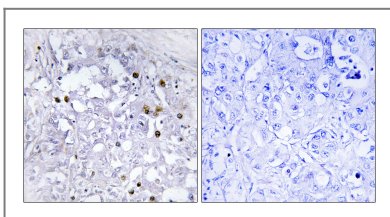
Western Blot analysis of various cells using Phospho-HNF4- $\alpha$  (S313) Polyclonal Antibody diluted at 1:1000



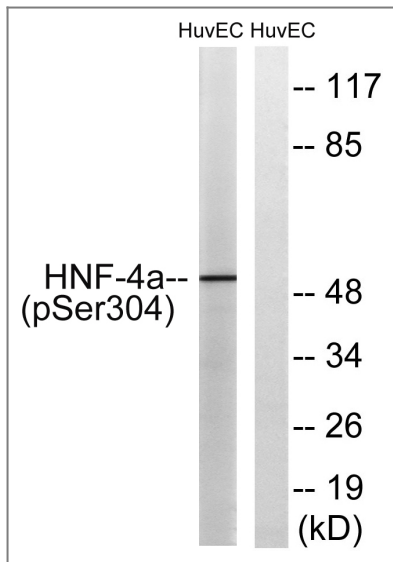
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using HNF4 alpha (Phospho-Ser313) Antibody



Immunofluorescence analysis of LOVO cells, using HNF4 alpha (Phospho-Ser313) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma, using HNF4 alpha (Phospho-Ser313) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells treated with EGF 200ng/ml 30', using HNF4 alpha (Phospho-Ser313) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code to access additional product information:  
**HNF-4α (Phospho Ser313) Rabbit pAb**

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