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# Phospho-HNF4A(S142) Antibody Blocking peptide

**Synthetic peptide**
**Catalog # BP3590a**

## Specification

### Phospho-HNF4A(S142) Antibody Blocking peptide - Product Information

| | |
|---|---|
| Primary Accession | P41235 |
| Other Accession | NP_849180 |

### Phospho-HNF4A(S142) Antibody Blocking peptide - 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

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/products/AP3590a>AP3590a</a> was selected from the region of human Phospho-HNF4A-pS142. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### Phospho-HNF4A(S142) Antibody Blocking peptide - 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:<a href="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.

## Phospho-HNF4A(S142) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

## Phospho-HNF4A(S142) Antibody Blocking peptide - Images

## Phospho-HNF4A(S142) Antibody Blocking peptide - Background

HNF4A is a nuclear transcription factor which binds DNA as a homodimer. This 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 protein may play a role in development of the liver, kidney, and intestines. Mutations in this protein have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I.

## Phospho-HNF4A(S142) Antibody Blocking peptide - References

Sugai,M., Pathol. Int. 58 (11), 681-686 (2008)Lee,S.S., Hepatology 48 (2), 635-645 (2008)Guo,H., Biochem. J. 394 (PT 2), 379-387 (2006)Hong,Y.H., J. Biol. Chem. 278 (30), 27495-27501 (2003)