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# NR1I3 Rabbit pAb

**Catalog No.: A1970** **5 Publications**

## Basic Information

**Observed MW**
45kDa/40kDa

**Calculated MW**
40kDa

**Category**
Primary antibody

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

**Cross-Reactivity**
Human, Mouse, Rat

## Background

This gene encodes a member of the nuclear receptor superfamily, and is a key regulator of xenobiotic and endobiotic metabolism. The protein binds to DNA as a monomer or a heterodimer with the retinoid X receptor and regulates the transcription of target genes involved in drug metabolism and bilirubin clearance, such as cytochrome P450 family members. Unlike most nuclear receptors, this transcriptional regulator is constitutively active in the absence of ligand but is regulated by both agonists and inverse agonists. Ligand binding results in translocation of this protein to the nucleus, where it activates or represses target gene transcription. These ligands include bilirubin, a variety of foreign compounds, steroid hormones, and prescription drugs. In addition to drug metabolism, the CAR protein is also reported to regulate genes involved in glucose metabolism, lipid metabolism, cell proliferation, and circadian clock regulation. Multiple transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:500 - 1:1000 |
| **IF/ICC** | 1:50 - 1:200 |
| **IP** | 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## Immunogen Information

**Gene ID**
9970

**Swiss Prot**
Q14994

**Immunogen**
Recombinant fusion protein containing a sequence corresponding to amino acids 103-352 of human NR1I3 (NP_001070948.1).

**Synonyms**
CAR; CAR1; MB67; NR1I3

## Contact


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## Product Information

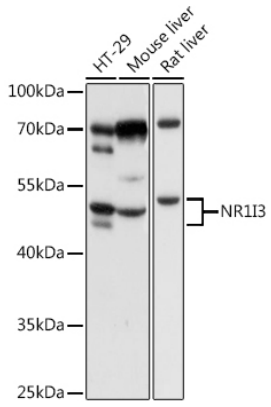
**Source**
Rabbit

**Isotype**
IgG

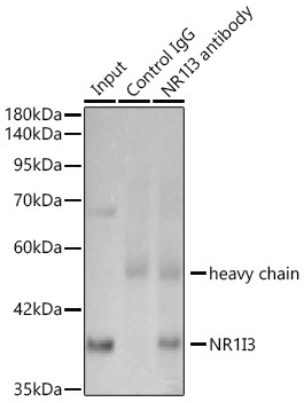
**Purification**
Affinity purification

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

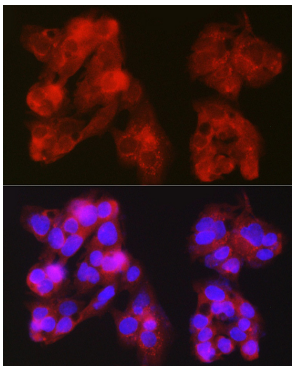
## Validation Data




Western blot analysis of various lysates using NR1I3 Rabbit pAb (A1970) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.




Immunoprecipitation of NR1I3 in 300 µg extracts from 293T cells transfected with NR1I3 using 3 µg NR1I3 Rabbit pAb (A1970). Western blot analysis was performed using NR1I3 Rabbit pAb (A1970) at 1:1000 dilution.



Immunofluorescence analysis of HepG2 cells using NR1I3 Rabbit pAb (A1970) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.