

Monoclonal Anti-human CAR/NR1I3 Antibody

ORDERING INFORMATION

Catalog Number: PP-N4111-00

Clone: N4111

GenBank: Z30425

Ig Class: mouse IgG₁

Volume: 100 µL

Concentration: 1 mg/mL

Formulation: A liquid formulation in physiologic saline with 0.1% NaN₃

Storage: ≤ -20 °C

Specificity: human CAR

Applications: Western Blot
Direct ELISA
Immunohistochemistry
Immunoprecipitation

Description

Constitutive Androstane Receptor (CAR, MB67; NR1I3) is a 40 kDa member of the NR1 subfamily of the Nuclear Hormone Receptor family. It is predominantly expressed in the liver and forms a heterodimer with Retinoid X Receptor (RXR). The heterodimer activates retinoic acid, xenobiotic and phenobarbital response elements. There are two isoforms. Each contains a DNA-binding hinge and dimerization domain. One is full-length at 352 amino acids while the other shows a 4 amino acid truncation at the extreme C-terminus.

Preparation

Produced in BALB/c mouse ascites inoculated with a hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with recombinant human CAR (amino acids 76 - 348). The IgG fraction of the mouse ascites was purified by ammonium sulfate fractionation.

Formulation

A liquid formulation in physiologic saline with 0.1% NaN₃.

Storage

This antibody is stable for greater than six months when held at -20 °C in a **manual defrost freezer** or at -70 °C. Upon thawing, the antibody can be stored at 2-8 °C for at least 1 month without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody specifically recognizes human CAR and cross-reacts with mouse and rat CAR. This antibody does not recognize human Pregnane X Receptor (PXR).

Applications

Western Blot - This antibody can be used at 1 µg/mL under reducing conditions and at 3 µg/mL under non-reducing conditions with the appropriate secondary reagents to detect human CAR.

Direct ELISA - This antibody can be used at 0.1 µg/mL with the appropriate secondary reagents to detect human CAR.

Immunohistochemistry - Optimal dilutions should be determined by each laboratory.

Immunoprecipitation - Optimal dilutions should be determined by each laboratory.

Optimal dilutions should be determined by each laboratory for each application.

Caution: Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.



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