

Anti human CAR mouse monoclonal antibody

CAR: Constitutive androstane receptor

Code No PP-N4111-00

Clone No. N4111

Lot. A-1

Concentration 1mg/mL

Volume 100μL

Ig Class G1

Description CAR (NR1I3) is a member of orphan receptor. CAR is mainly expressed in liver and lower levels of expression are observed in heart, muscles, kidney and lung. CYP3A and CYP2B are regulated by CAR, which suggest xenobiotics can activate multiple CYP genes through this receptor. Mouse homolog is induced by phenobarbital and CAR-null mouse resistance to acetaminophen toxicity. CAR affects metabolism of drugs and other xenobiotics.

Nomenclature NR1I3

Genbank Z30425

Origin Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with E.coli-expressed recombinant human CAR (76-348 aa).

Specificity This antibody specifically recognizes human CAR and cross reacts with mouse and rat CAR. This antibody does not recognize human PXR.

Purification Ammonium sulfate fractionation

Formulation Physiological saline with 0.1% NaN₃ as a preservative.

Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

Western Blot 1 ug/mL

Non reducing Western Blot 3ug/mL

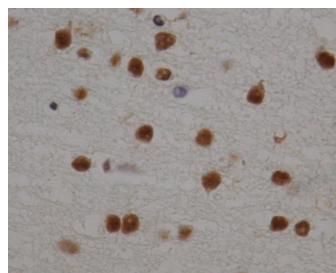
ELISA 0.1 ug/mL (A450=0.2)

Immunoprecipitation Decide by use

Supershift Assay Not yet tested

Chromatin immunoprecipitation Not yet tested

Immunohistochemistry Decide by use



Rat / Cerebellum

Storage Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

Reference

Notes 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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MADE IN JAPAN

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