

Monoclonal Anti-human PXR/NR1I2 Antibody

ORDERING INFORMATION

Catalog Number: PP-H4417-00

Clone: H4417

GenBank: AF084645

Ig Class: mouse IgG_{2A}

Volume: 100 µL

Concentration: 1 mg/mL

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

Storage: ≤ -20 °C

Specificity: human PXR1 and PXR2

Applications: Western Blot
Direct ELISA
Immunoprecipitation

Description

Pregnane X Receptor (PXR; also known as SXR and NR1I2) is a 50 kDa member of the Nuclear Receptor (NR1) subfamily of the Nuclear Hormone Receptor family. It is a product of the PXR gene that gives rise to two basic isoforms; a 434 amino acid (aa) PXR1 form and 473 aa PXR2 form. PXR2 differs from PXR1 in that PXR2 contains a 39 aa N-terminal extension. Six PXR1 isoforms have been reported (Swiss Protein Accession # 075469). The anti-human PXR antibody recognizes all isoforms except the "B" isoforms which show a deletion of amino acids 1 - 55 (MEVRP...FNVM). PXR forms a heterodimer with Retinoid X Receptor (RXR) and binds pregnanolone.

Preparation

Produced in BALB/c mouse ascites inoculated with a hybridoma of mouse myeloma cells (NS-1) and spleen cells of a BALB/c mouse immunized with recombinant human PXR1 (amino acids 1 - 40). 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 stored 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 PXR1 and human PXR2. Not yet tested in other species.

Applications

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

Direct ELISA - This antibody can be used at 2 µg/mL with the appropriate secondary reagents to detect human PXR.

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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