

Monoclonal Anti-human LXR α (Ligand Binding Domain)/NR1H3 Antibody

ORDERING INFORMATION

Catalog Number: PP-PPZ0412-00

Clone: PPZ0412

GenBank: U22662

Ig Class: mouse IgG_{2A}

Volume: 100 μ L

Concentration: 1 mg/mL

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

Storage: \leq -20 °C

Specificity: human LXR α

Applications: Western Blot
Direct ELISA
Supershift Assay
Immunohistochemistry
Immunoprecipitation
Chromatin Immunoprecipitation

Description

Human Liver X Receptor alpha (LXR α , RLD-1; NR1H3) is a 50 kDa member of the NR1/LXR subfamily of the Nuclear Hormone Receptor family. It is tissue-specific (liver and macrophages) and forms a heterodimer with Retinoid X Receptor (RXR). LXR is regulated by oxysterols such as 24,25 epoxycholesterol and 24-hydroxycholesterol. LXR activation reduces free cholesterol in macrophages and protects them from its cytotoxic effects. Human LXR α shares 62% amino acid identity to LXR β , an analogous molecule that is the product of a separate gene. Human LXR α has at least two isoforms. One isoform is full-length at 447 amino acids while the other shows a 60 amino acid deletion between amino acids 237-296.

Preparation

Produced in BALB/c mouse ascites inoculated with a hybridoma of spleen cells of a BALB/c mouse immunized with recombinant human LXR α (amino acids 164 - 447) and mouse myeloma cells (NS-1). The IgG fraction of the ascites fluid 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 LXR α and cross-reacts with mouse and rat LXR α . It does not cross-react with human LXR β . Not yet tested in other species.

Applications

Western Blot - This antibody can be used at 1 μ g/mL under reducing conditions with the appropriate secondary reagents to detect human LXR α .

Direct ELISA - This antibody can be used at 0.2 μ g/mL with the appropriate secondary reagents to detect human LXR α .

Supershift Assay - Optimal dilutions should be determined by each laboratory.

Immunohistochemistry - This antibody can be used at 20-40 μ g/mL with the appropriate secondary reagents to detect human LXR α .

Immunoprecipitation - Optimal dilutions should be determined by each laboratory.

Chromatin 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.



Manufactured by:
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