

## ***Monoclonal Anti-human LXR $\alpha$ (Ligand Binding Domain)/NR1H3 Antibody***

### ORDERING INFORMATION

**Catalog Number:** PP-PPZ0412-00

**Clone:** PPZ0412

**GenBank:** U22662

**Ig Class:** mouse IgG<sub>2A</sub>

**Volume:** 100  $\mu$ L

**Concentration:** 1 mg/mL

**Formulation:** A liquid formulation in physiologic saline with 0.1% NaN<sub>3</sub>

**Storage:**  $\leq -20^{\circ}\text{C}$

**Specificity:** human LXR $\alpha$

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

### ***Description***

Human Liver X Receptor alpha (LXR $\alpha$ , 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 epoxysterol and 24-hydroxycholesterol. LXR activation reduces free cholesterol in macrophages and protects them from its cytotoxic effects. Human LXR $\alpha$  shares 62% amino acid identity to LXR $\beta$ , an analogous molecule that is the product of a separate gene. Human LXR $\alpha$  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 $\alpha$  (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% NaN<sub>3</sub>.

### ***Storage***

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

### ***Specificity***

This antibody specifically recognizes human LXR $\alpha$  and cross-reacts with mouse and rat LXR $\alpha$ . It does not cross-react with human LXR $\beta$ . Not yet tested in other species.

### ***Applications***

**Western Blot** - This antibody can be used at 1  $\mu\text{g/mL}$  under reducing conditions with the appropriate secondary reagents to detect human LXR $\alpha$ .

**Direct ELISA** - This antibody can be used at 0.2  $\mu\text{g/mL}$  with the appropriate secondary reagents to detect human LXR $\alpha$ .

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

**Immunohistochemistry** - This antibody can be used at 20-40  $\mu\text{g/mL}$  with the appropriate secondary reagents to detect human LXR $\alpha$ .

**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:**  
Perseus Proteomics, Inc.  
3F, A.I. Nihombashi EAST  
30-1 Nihonbashi-Hakozakicho, Chuo-ku,  
Tokyo 103-0015, JAPAN  
Tel: +81-3-6264-8268  
Fax: +81-3-3668-7776  
E-mail: info@ppmx.com  
http://www.ppmx.com

725911.4

9/16

FOR RESEARCH USE ONLY.  
NOT FOR USE IN HUMANS.