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Datasheet for 600-401-CN5

# LXR-A Antibody

## Overview

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| **Description:** | Anti-LXR-A (RABBIT) Antibody - 600-401-CN5 |
| **Item No.:** | 600-401-CN5 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, IF, IHC, WB |
| **Reactivity:** | Human, Mouse, Rat |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | LXR-A belongs to the Liver X Receptor family that encodes highly homologous transcription factors. Like the highly homologous LXR-B, LXR-A forms heterodimers with the retinoic acid receptor RXRalpha, function as sensors for cellular oxysterols which when activated, increase the expression of genes that control sterol and fatty acid metabolism and homeostasis. Recent experiments have indicated that the LXRs can also modulate both innate and adaptive immune responses. Human and mouse tumors produce LXR ligands that inhibit CCR7 expression on maturing dendritic cells (DCs), thereby allowing tumor immunoescape. In mouse models, it was shown that ablating LXR-A signaling led to an immune-mediated strong inhibition of tumor growth, suggesting that manipulation of this pathway may be a viable anti-cancer approach. |
| **Synonyms:** | LXR-A Antibody, LXRA, LXR-a, RLD-1, LXRA, Oxysterols receptor LXR-alpha, Liver X receptor alpha |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | NR1H3 |
| **Reactivity:** | Human, Mouse, Rat |
| **Immunogen Type:** | Conjugated Peptide |
| **Immunogen:** | Anti-LXR-A antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide from near the N-terminus human LXR-A. |

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| **Purity/Specificity:** | Anti-LXR-A Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with LXR-A from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - Q13133<br>• GeneID - 10062<br>• NCBI - NP_005684 |

## Application Details

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| **Tested Applications:** | ELISA, IF, IHC, WB |
| **Application Note:** | Anti-LXR-A Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 50 kDa in Western Blots of specific cell lysates and tissues. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:10,000 - 1:20,000 |
| **IF:** | 20 µg/mL |
| **IHC:** | 5 µg/mL |
| **WB:** | 1-2 µg/mL |

## Formulation

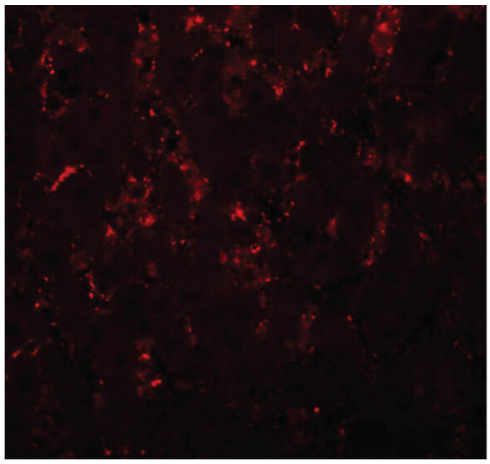
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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

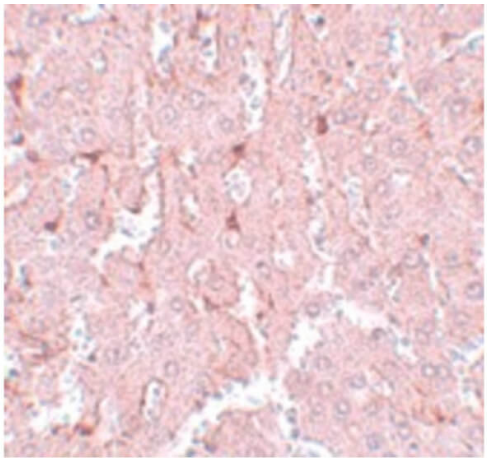
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| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |

**Expiration:** Expiration date is one (1) year from date of receipt.

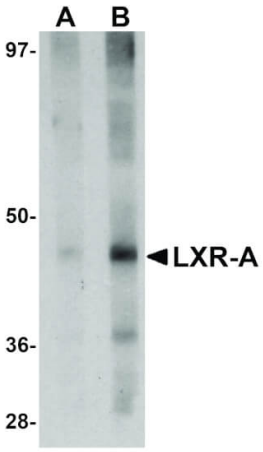
## Images



**Immunofluorescence Microscopy**
Immunofluorescence Microscopy of LXR-A antibody. Tissue: Rat liver tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: LXR-A antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: LXR-A is a nuclear. Staining: LXR-A as red fluorescent signal.



**Immunohistochemistry**
Immunohistochemistry of LXR-A antibody. Tissue: rat liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: LXR-A antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: LXR-A is a nuclear. Staining: LXR-A as precipitated pink signal with purple nuclear counterstain.




**Western Blot**

Western Blot of LXR-A antibody. Lane 1: rat liver tissue lysate with LXR-A antibody at 1 µg/mL. Lane 2: rat liver tissue lysate with LXR-A antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 50 kDa, 46 kDa for LXR-A. Other band(s): LXR-A splice variants and isoforms.

## Disclaimer

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