

Anti-LXR alpha antibody [PPZ0412] ab41902

★★★★★ [12 Abreviews](#) [78 References](#) [4 Images](#)

Overview

Product name	Anti-LXR alpha antibody [PPZ0412]
Description	Mouse monoclonal [PPZ0412] to LXR alpha
Host species	Mouse
Tested applications	Suitable for: ICC/IF, ELISA, IP, ChIP, GSA, IHC-P, Flow Cyt Unsuitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to Human LXR alpha aa 164-447. Database link: Q13133
Positive control	Rat hepatocyte and kupffer cell. Rat spleen macrophage.
General notes	<p>This product was changed from ascites to tissue culture supernatant on 3rd April 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7 Preservative: 0.1% Sodium azide
Purity	Physiological saline.
Clonality	Tissue culture supernatant Monoclonal

Clone number PPZ0412

Isotype IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab41902 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ChIP	★★★★★ (1)	Use at an assay dependent concentration.
GSA		Use at an assay dependent concentration.
EMSA		Use at an assay dependent concentration.
IHC-P	★★★★★ (2)	Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for WB.

Target

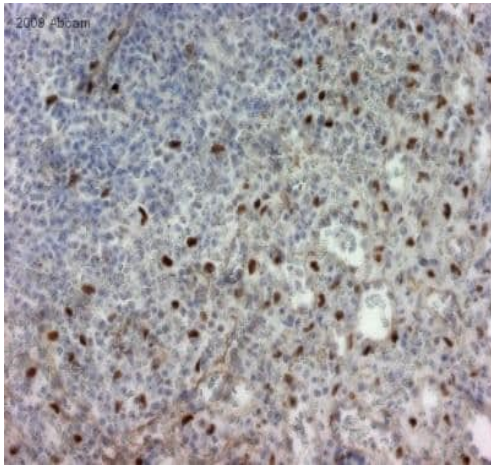
Function Orphan receptor. Interaction with RXR shifts RXR from its role as a silent DNA-binding partner to an active ligand-binding subunit in mediating retinoid responses through target genes defined by LXRES. LXRES are DR4-type response elements characterized by direct repeats of two similar hexanucleotide half-sites spaced by four nucleotides. Plays an important role in the regulation of cholesterol homeostasis, regulating cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8.

Tissue specificity Visceral organs specific expression. Strong expression was found in liver, kidney and intestine followed by spleen and to a lesser extent the adrenals.

Sequence similarities Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.

Cellular localization Nucleus.

Images

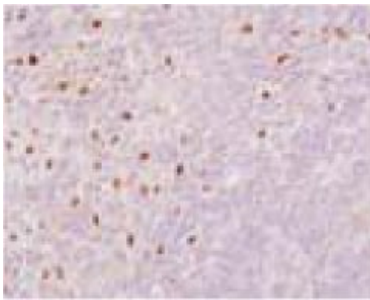


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LXR alpha antibody [PPZ0412] (ab41902)

This image is courtesy of an abreview submitted by Rudolf Jung, University of Regensburg.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue sections labeling LXR alpha with ab41902 at 1/100 dilution. Tissue was fixed with formaldehyde and permeabilized with Tween 20. Heat mediated antigen retrieval was performed using TRIS-EDTA Buffer. Tissue sections were incubated with Anti-LXR alpha antibody [PPZ0412] - ChIP Grade (ab41902) for 30 minutes at 20°C in diluent from DAKO. An undiluted HRP conjugated horse anti-mouse secondary antibody was used.

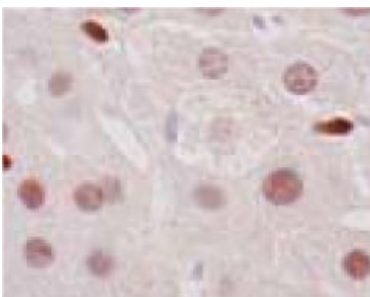
This image was generated using the ascites version of the product.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LXR alpha antibody [PPZ0412] - ChIP Grade (ab41902)

ab41902 staining LXR alpha in rat spleen macrophage cell paraffin section (20-40ug/mL) by Immunohistochemistry, formalin-fixed paraffin embedded sections.

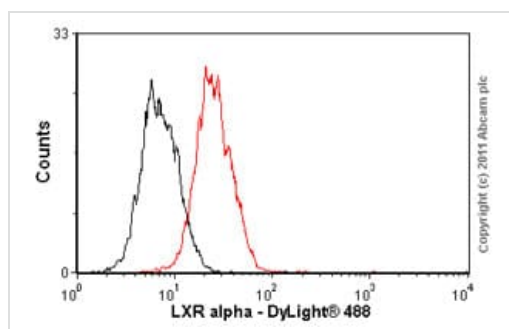
This image was generated using the ascites version of the product.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LXR alpha antibody [PPZ0412] - ChIP Grade (ab41902)

ab41902 staining LXR alpha in Rat Hepatocyte and Kupffer cell paraffin section (20-40ug/mL) by Immunohistochemistry, formalin-fixed paraffin embedded sections.

This image was generated using the ascites version of the product.



Flow Cytometry - Anti-LXR alpha antibody
[PPZ0412] - ChIP Grade (ab41902)

Overlay histogram showing HepG2 cells stained with ab41902 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab41902, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (**ab91361**, 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

This image was generated using the ascites version of the product.

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