

Product datasheet

Anti-LXR alpha antibody ab3585

★★★★☆ 3 Abreviews 14 References 4 Images

Overview

Product name	Anti-LXR alpha antibody
Description	Rabbit polyclonal to LXR alpha
Host species	Rabbit
Specificity	Detects recombinant Human LXR alpha. This antibody does not detect recombinant Human LXR beta.
Tested applications	Suitable for: ICC/IF, WB, IHC-FoFr
Species reactivity	Reacts with: Mouse, Rat, Human, Chinese hamster Predicted to work with: Cow 
Immunogen	Synthetic peptide corresponding to Human LXR alpha aa 318-329. Sequence: DFSYNREDFAKA (Peptide available as ab5021)
	 Run BLAST with  Run BLAST with

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 99% PBS, 0.1% BSA
Purity	Immunogen affinity purified
Primary antibody notes	Liver X Receptors (LXRs) are oxysterol activated nuclear receptors which are involved in the regulation of genesis and metabolism of cholesterol and bile acids. LXRs form heterodimeric complexes with the retinoic acid receptors (RARs) once activated by their respective oxysterol ligands. Two known isoforms, alpha and beta, are differentially expressed; the alpha isoform predominantly expressed in liver, whereas beta isoform expression has been shown to be ubiquitous.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab3585** 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	★★★★☆	1/100.
WB	★★★★★	1/300. Can be blocked with LXR alpha peptide (ab5021) .
IHC-FoFr		Use at an assay dependent concentration. PubMed: 22836489
EMSA		Use at an assay dependent concentration.

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.

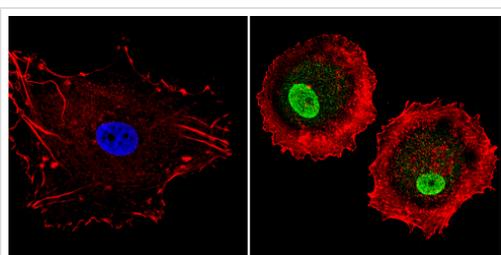
Sequence similarities

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

Cellular localization

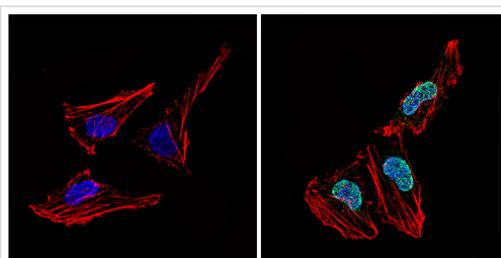
Nucleus.

Images



Immunocytochemistry/ Immunofluorescence - Anti-LXR alpha antibody (ab3585)

Immunocytochemistry/Immunofluorescence analysis of MCF-7 cells labeling LXR alpha (green) with ab3585 at 1/300. F-Actin staining with Phalloidin (red) and nuclei with DAPI or Hoechst (blue). Cells were fixed with formalin, permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA in PBS for 30 minutes at room temperature. Cells were incubated with the primary antibody overnight at 4°C. A DyLight-conjugated secondary antibody was used. 60X magnification. Left - negative control.



Immunocytochemistry/ Immunofluorescence - Anti-LXR alpha antibody (ab3585)

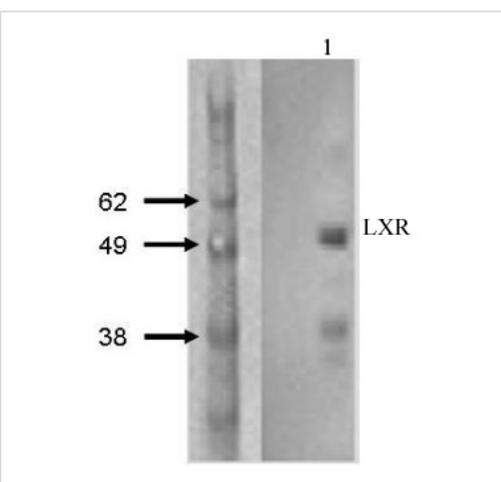
Immunocytochemistry/Immunofluorescence analysis of HeLa cells labeling LXR alpha (green) with ab3585 at 1/300. F-Actin staining with Phalloidin (red) and nuclei with DAPI or Hoechst (blue). Cells were fixed with formalin, permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA in PBS for 30 minutes at room temperature. Cells were incubated with the primary antibody overnight at 4°C. A DyLight-conjugated secondary antibody was used. 60X magnification. Left - negative control.



Immunocytochemistry/ Immunofluorescence - Anti-LXR alpha antibody (ab3585)

This image is courtesy of an Abreview submitted by Dr Mahesh Mathrubutham

ab3585 at 1/100 staining hamster CHO-K1 cells expressing human LXRA by ICC/IF. The cells were formaldehyde fixed, permeabilized and blocked before being stained with the antibody for 1 hour at 22°C. A FITC labelled goat anti-rabbit antibody was used as the secondary.



Western blot - Anti-LXR alpha antibody (ab3585)

This image is courtesy of an anonymous abreview.

Anti-LXR alpha antibody (ab3585) at 1/1000 dilution + Whole cell lysate prepared from Chinese hamster CHO cells at 50000 cells

Secondary

HRP conjugated goat polyclonal to rabbit Ig at 1/1000 dilution

Performed under reducing conditions.

Observed band size: 50 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 1 minute

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