abcam

Product datasheet

Anti-LXR alpha antibody [EPR6508(N)] ab176323

Recombinant RabMAb

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Overview

Product name	Anti-LXR alpha antibody [EPR6508(N)]
Description	Rabbit monoclonal [EPR6508(N)] to LXR alpha
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt (Intra),ICC/IF,IHC-P or IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Sheep
Immunogen	Synthetic peptide within Human LXR alpha aa 50-150 (Cysteine residue). The exact sequence is proprietary. Database link: **Q13133** (Peptide available as **ab191835**)
Positive control	WB: Jurkat, SH-SY5Y, IMR-32 cell non-nuclear and nuclear fractions, HEK 293 transfected with blank vectors, blank vectors non-nuclear fraction and blank vectors nuclear fraction, HEK 293 transfected with His tagged human LXR alpha full length expression vectors non-nuclear fraction and nuclear fraction, HEK 293 transfected with His tagged human LXR alpha and beta full length expression vectors.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6508(N)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab176323 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

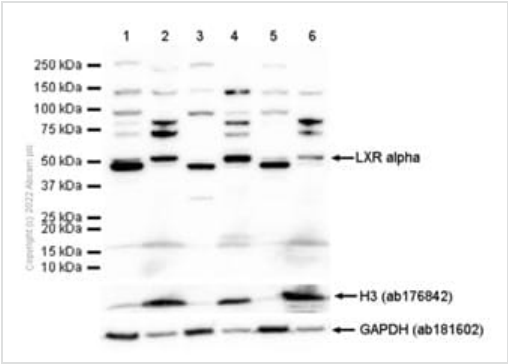
Application	Abreviews	Notes
WB	★★★★★ (2)	1/1000 - 1/5000. Predicted molecular weight: 50 kDa.

Application notes Is unsuitable for Flow Cyt (Intra),ICC/IF,IHC-P or IP.

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 hexanuclotide 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



Western blot - Anti-LXR alpha antibody [EPR6508(N)] (ab176323)

All lanes : Anti-LXR alpha antibody [EPR6508(N)] (ab176323) at 1/1000 dilution

Lane 1 : Jurkat (Human T cell leukemia T lymphocyte) cells non-nuclear fraction
Lane 2 : Jurkat (Human T cell leukemia T lymphocyte) cells nuclear fraction
Lane 3 : SH-SY5Y (Human neuroblastoma epithelial cell) cells non-nuclear fraction
Lane 4 : SH-SY5Y (Human neuroblastoma epithelial cell) cells nuclear fraction
Lane 5 : IMR-32 (Human neuroblastoma neuroblast) cells non-nuclear fraction
Lane 6 : IMR-32 (Human neuroblastoma neuroblast) cells nuclear fraction

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 50 kDa
Observed band size: 50 kDa

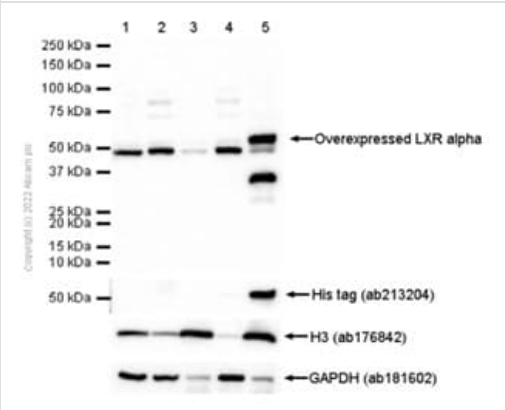
Exposure time: 7 seconds

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM/TBST

Ab176323 detects a higher band in nuclear fraction than in non-nuclear fraction, which might be the correct band of interest.

ab176842 and **ab181602** were used as loading controls.



Western blot - Anti-LXR alpha antibody [EPR6508(N)] (ab176323)

All lanes : Anti-LXR alpha antibody [EPR6508(N)] (ab176323) at 1/1000 dilution

Lane 1 : HEK 293 transfected with blank vectors, whole cell lysate
Lane 2 : HEK 293 transfected with blank vectors, non-nuclear fraction
Lane 3 : HEK 293 transfected with blank vectors, nuclear fraction
Lane 4 : HEK 293 transfected with His tagged human LXR alpha full length expression vectors, non-nuclear fraction
Lane 5 : HEK 293 transfected with His tagged human LXR alpha full length expression vectors, nuclear fraction

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 50 kDa
Observed band size: 50 kDa

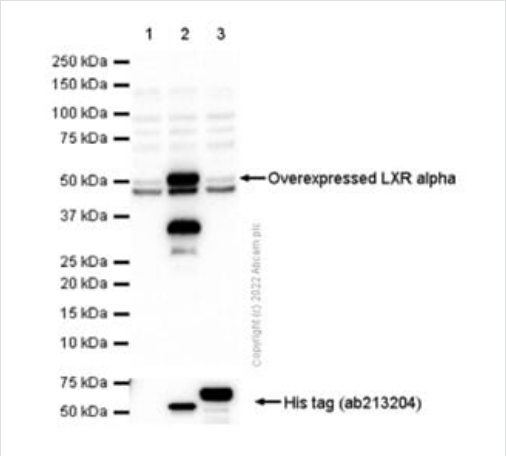
Exposure time: 10 seconds

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM/TBST

Ab176323 detects a higher band in nuclear fraction than in non-nuclear fraction, which might be the correct band of interest.

ab213204, **ab176842** and **ab181602** were used as loading controls.



Western blot - Anti-LXR alpha antibody [EPR6508(N)] (ab176323)

All lanes : Anti-LXR alpha antibody [EPR6508(N)] (ab176323) at 1/1000 dilution

Lane 1 : HEK 293 transfected with blank vectors, whole cell lysate
Lane 2 : HEK 293 transfected with His tagged human LXR alpha full length expression vectors, whole cell lysate
Lane 3 : HEK 293 transfected with His tagged human LXR beta full length expression vectors, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 50 kDa
Observed band size: 50 kDa

Exposure time: 3 seconds

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM/TBST

Ab176323 does not cross activate with human LXR beta.

ab213204 was used as loading control.

Anti-LXR alpha antibody [EPR6508(N)] (ab176323)

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