

# LXR $\alpha$ Polyclonal Antibody

Catalog # AP73326

## Product Information

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|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P              |
| Primary Accession | <a href="#">Q13133</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 50396                  |

## Additional Information

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|                    |  |
|--------------------|--|
| Gene ID            | 10062  |
| Other Names        | NR1H3; LXRA; Oxysterols receptor LXR-alpha; Liver X receptor alpha; Nuclear receptor subfamily 1 group H member 3  |
| Dilution           | WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications. |
| Format             | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.  |
| Storage Conditions | -20°C  |

## Protein Information

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|          |   |
|----------|---|
| Name     | NR1H3   |
| Synonyms | LXRA  |
| Function | <p>Nuclear receptor that exhibits a ligand-dependent transcriptional activation activity (PubMed:<a href="#">19481530</a>, PubMed:<a href="#">25661920</a>, PubMed:<a href="#">37478846</a>).</p> <p>Interaction with retinoic acid receptor (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 (PubMed:<a href="#">37478846</a>). LXRES are DR4-type response elements characterized by direct repeats of two similar hexanuclotide half-sites spaced by four nucleotides (By similarity).</p> <p>Plays an important role in the regulation of cholesterol homeostasis, regulating cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8 (PubMed:<a href="#">19481530</a>). Interplays functionally with RORA for the regulation of genes involved in liver metabolism (By similarity).</p> <p>Induces LPCAT3-dependent phospholipid remodeling in endoplasmic reticulum (ER) membranes of hepatocytes, driving SREBF1 processing and lipogenesis (By similarity). Via LPCAT3, triggers the incorporation of</p> |

arachidonate into phosphatidylcholines of ER membranes, increasing membrane dynamics and enabling triacylglycerols transfer to nascent very low-density lipoprotein (VLDL) particles. Via LPCAT3 also counteracts lipid-induced ER stress response and inflammation, likely by modulating SRC kinase membrane compartmentalization and limiting the synthesis of lipid inflammatory mediators (By similarity).

#### Cellular Location

Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00407, ECO:0000269 | PubMed:25661920}. Cytoplasm {ECO:0000250 | UniProtKB:Q9Z0Y9}

#### Tissue Location

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

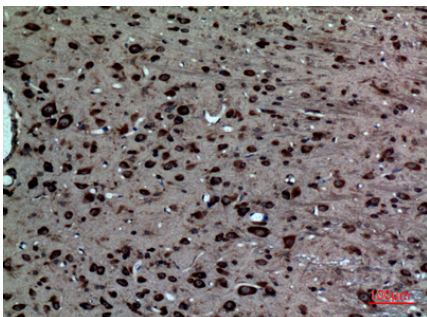
## Background

Nuclear receptor that exhibits a ligand-dependent transcriptional activation activity (PubMed: [19481530](#), PubMed:[25661920](#)). Interaction with retinoic acid receptor (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 (By similarity). LXRES are DR4-type response elements characterized by direct repeats of two similar hexanuclotide half-sites spaced by four nucleotides (By similarity). Plays an important role in the regulation of cholesterol homeostasis, regulating cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8 (PubMed:[19481530](#)). Interplays functionally with RORA for the regulation of genes involved in liver metabolism (By similarity).

## Images

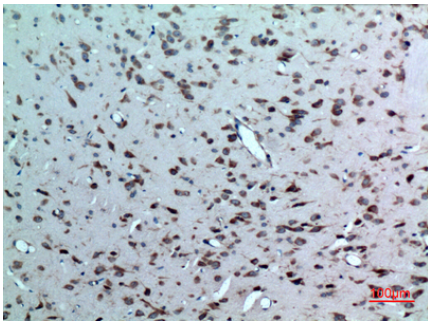


Western Blot analysis of HeLa cells using LXRA Polyclonal Antibody. Antibody was diluted at 1:500. Secondary antibody was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).

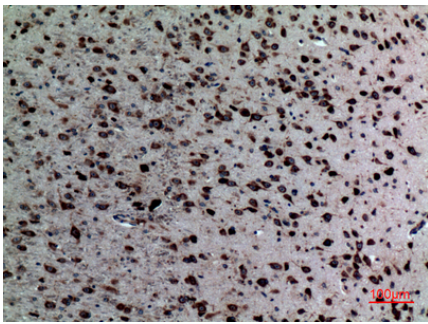
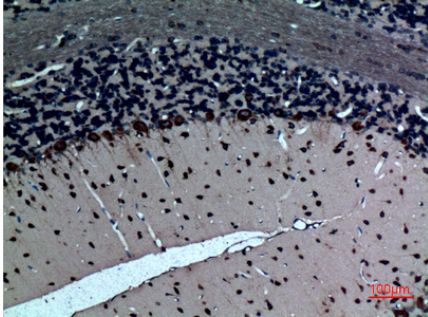


Immunohistochemical analysis of paraffin-embedded rat-brain, antibody was diluted at 1:100

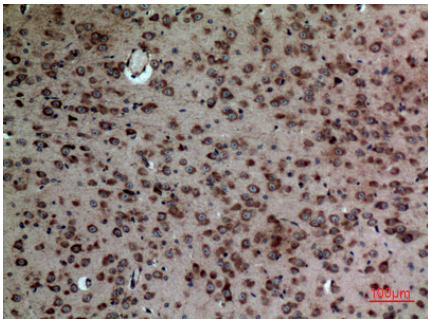
Immunohistochemical analysis of paraffin-embedded rat-brain, antibody was diluted at 1:100



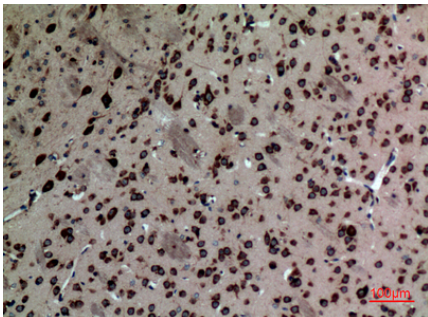
Immunohistochemical analysis of paraffin-embedded rat-brain, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded mouse-brain, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded mouse-brain, antibody was diluted at 1:100



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