

Anti human LXR alpha Ligand Binding Domain mouse monoclonal antibody

LXR alpha: Liver X Receptor alpha

Code No	PP-PPZ0412-10
Clone No.	PPZ0412
Batch	A2F1
Size	100ug lyophilized antibody
Formulation	Lyophilized from phosphate-buffered saline (PBS) containing 5% Trehalose as a stabilizer.
Ig Class	G2a
Nomenclature	NR1H3
Genbank	U22662

Description Liver X receptor alpha (LXRα, RLD-1; NR1H3) is a member of orphan nuclear receptor. LXRα activator is the naturally occurring compound 22(R)-hydroxycholesterol (22(R)-HC), 20(S)HC, 24-HC, 25-HC, 7a-HC. LXRα is expressed in the liver, kidney and spleen. LXRα has important role in regulating cholesterol metabolism. It is believed that LXR specific agonist may have important medical applications in the regulation of cholesterol homeostasis. LXRα forms heterodimer with RXR.

Origin Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with E.coli-expressed recombinant human LXR alpha (164-447 aa).

Specificity This antibody specifically recognizes human LXR alpha and cross reacts with mouse and rat LXR alpha. This antibody does not recognize human LXR beta.

Purification Ammonium sulfate fractionation.

Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

Western Blot 1 ug/mL

Non-reducing Western Blot Not yet tested

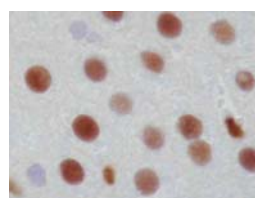
ELISA 0.2 ug/mL

Immunoprecipitation Decide by use

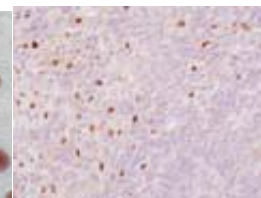
Supershift Assay Decide by use

Chromatin immunoprecipitation Decide by use

Immunohistochemistry 20-40 ug/mL



Rat Liver
Hepatocyte, Kupffer cell
paraffin section



Rat Spleen
Macrophage
paraffin section

Reconstitution Reconstitute with desired volume of distilled water. Reconstitution in 0.1 ml of distilled water yields an antibody concentration of 1mg/ml. Please note reconstituted solution will contain original PBS and 5% Trehalose (see Formulation).

Storage Lyophilized samples are stable for twelve months when held at 2 - 8 C. Upon reconstitution, the antibody can be stored at 2 - 8 C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

Reference Blaschke F, et al., Circ Res. 2004 Dec 10;95(12):e110-23. Watanabe Y, et al., Arterioscler Thromb Vasc Biol. 2005 Mar;25(3):622-7. Sakamoto A, et al., J Histochem Cytochem. 2007 Jun; 55 (6):641-9

Notes

FOR RESEARCH ONLY. NOT FOR USE IN HUMANS.

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MADE IN JAPAN

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