

Rabbit LRAT Polyclonal Antibody | anti-LRAT antibody

LRAT Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323767	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

LRAT; Polyclonal Antibody; LRAT Antibody; LCA14; Lecithin retinol acyltransferase (phosphatidylcholine retinol O acyltransferase); Lecithin retinol acyltransferase; LRAT_HUMAN; Phosphatidylcholine retinol O acyltransferase; Phosphatidylcholine--retinol O-acyltransferase; anti-LRAT antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	LRAT antibody detects endogenous levels of total LRAT
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	230
Applicable Applications for anti-LRAT antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Endoplasmic Reticulum Membrane. Rough Endoplasmic Reticulum. Endosome > Multivesicular Body. Cytoplasm > Perinuclear Region. Present in the rough endoplasmic reticulum and multivesicular body in hepatic stellate cells. Present in the rough endoplasmic reticulum and perinuclear region in endothelial cells.
Tissue Specificity	Hepatic stellate cells and endothelial cells (at protein level). Found at high levels in testis and liver, followed by retinal pigment epithelium, small intestine, prostate, pancreas and colon. Low expression observed in brain. In fetal tissues, expressed in retinal pigment epithelium and liver, and barely in the brain.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA323767 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from COLO205 cells, using LRAT antibody.



IHC (Immunohistochemistry)
AAA323767 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-LRAT antibody

Function: Transfers the acyl group from the sn-1 position of phosphatidylcholine to all-trans retinol, producing all-trans retinyl esters. Retinyl esters are storage forms of vitamin A. LRAT plays a critical role in vision. It provides the all-trans retinyl ester substrates for the isomerohydrolase which processes the esters into 11-cis-retinol in the retinal pigment epithelium; due to a membrane-associated alcohol dehydrogenase, 11 cis-retinol is oxidized and converted into 11-cis-retinaldehyde which is the chromophore for rhodopsin and the cone photopigments.
Similarity: Belongs to the H-rev107 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	675022749
NCBI GeneID	9227
NCBI Accession #	NP_001288574.1
NCBI GenBank Nucleotide #	NM_001301645.1
UniProt Accession #	O95237; Q8N716; A8K983
Molecular Weight	Observed: 27 kD Predicted: 26 kDa
NCBI Official Full Name	lecithin retinol acyltransferase
NCBI Official Synonym Full Names	lecithin retinol acyltransferase
NCBI Official Symbol	LRAT
NCBI Official Synonym Symbols	LCA14
NCBI Protein Information	lecithin retinol acyltransferase
UniProt Protein Name	Lecithin retinol acyltransferase
UniProt Gene Name	LRAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.