

For Research Use Only

LRAT Polyclonal antibody

Catalog Number: 12815-1-AP **3 Publications**



Basic Information

Catalog Number:

12815-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3556

GenBank Accession Number:

BC031053

GeneID (NCBI):

9227

UNIPROT ID:

O95237

Full Name:

lecithin retinol acyltransferase
(phosphatidylcholine--retinol O-acyltransferase)

Calculated MW:

230 aa, 26 kDa

Observed MW:

26 kDa, 50-54 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

rat, mouse

Positive Controls:

WB : mouse testis tissue, Y79 cells

Background Information

LRAT belongs to the H-rev107 family. LRAT transfers the acyl group from the sn-1 position of phosphatidylcholine to all-trans retinol, producing all-trans retinyl esters. 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, LRAT monomers (26kDa) interact in membranes and form functional homodimers (50-54 kDa) through protein-protein interactions and disulfide bond formation. Defects in LRAT are a cause of severe early-onset retinal dystrophy (RD). This antibody was generated against the internal residues of human LRAT. It is predicted to detect endogenous LRAT.

Notable Publications

Author	Pubmed ID	Journal	Application
Wei Li	31353518	J Food Biochem	WB
Volha V Malechka	28734946	Am J Pathol	WB
Peter I Imoesi	37599827	iScience	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

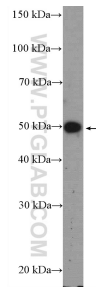
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



mouse testis tissue were subjected to SDS PAGE followed by western blot with 12815-1-AP (LRAT Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.