

For Research Use Only

LRAT Polyclonal antibody

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



Basic Information

Catalog Number: 12815-1-AP	GenBank Accession Number: BC031053	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 9227	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	Full Name: lecithin retinol acyltransferase (phosphatidylcholine--retinol O-acyltransferase)	
Isotype: IgG	Calculated MW: 230 aa, 26 kDa	
Immunogen Catalog Number: AG3556	Observed MW: 26 kDa, 50-54 kDa	

Applications

Tested Applications: WB,ELISA	Positive Controls: WB : mouse testis tissue, Y79 cells
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: rat, mouse	

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

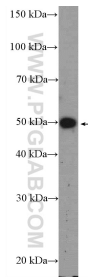
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1%BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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.