

For Research Use Only

LRAT Recombinant antibody

Catalog Number: 85628-1-RR



Basic Information

Catalog Number:

85628-1-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

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:

Protein A purification

CloneNo.:

243058B5

Recommended Dilutions:

WB 1:1000-1:6000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse testis tissue, rat testis tissue

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.

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

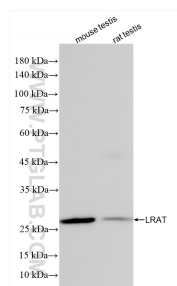
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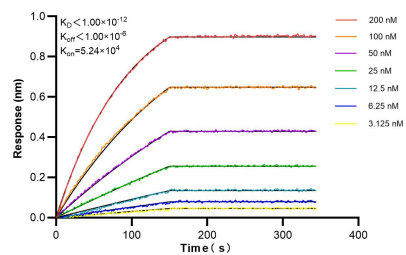
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85628-1-RR (LRAT antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 85628-1-RR against Human LRAT were performed. The affinity constant is below 1 pM.