# LRAT Recombinant antibody

Catalog Number:85628-1-RR

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## Basic Information

**Catalog Number:**
85628-1-RR

**Concentration:**
1000 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:**
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.
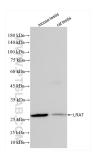
## Storage

**Storage:**
Store at -20℃. Stable for one year after shipment.
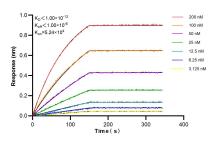**Storage Buffer:**
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

# 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.