### **Product Name: LRAT Rabbit Polyclonal Antibody**

Catalog #: APRab13400



#### **Summary**

Production Name LRAT Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

**Host** Rabbit

**Application** IF,IHC,WB,ELISA **Reactivity** Human,Mouse,Rat

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

#### **Immunogen**

Storage

Gene Name LRAT

Alternative Names LRAT; Lecithin retinol acyltransferase; Phosphatidylcholine--retinol O-acyltransferase

**Gene ID** 9227.0

O95237.The antiserum was produced against synthesized peptide derived from human **SwissProt ID** 

LRAT. AA range:111-160

## **Application**

WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in

**Dilution Ratio** 

other applications.

Molecular Weight 27kD

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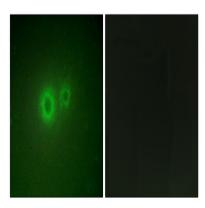
#### **Background**

lecithin retinol acyltransferase (phosphatidylcholine--retinol O-acyltransferase)(LRAT) Homo sapiens The protein encoded by this gene localizes to the endoplasmic reticulum, where it catalyzes the esterification of all-trans-retinol into all-transretinyl ester. This reaction is an important step in vitamin A metabolism in the visual system. Mutations in this gene have been associated with early-onset severe retinal dystrophy and Leber congenital amaurosis 14. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014], catalytic activity: Phosphatidylcholine + retinol--[cellularretinol-binding-protein] = 2-acylglycerophosphocholine + retinyl-ester--[cellular-retinol-binding-protein],,disease:Defects in LRAT are a cause of severe early-onset retinal dystrophy (RD) [MIM:604863], enzyme regulation: Inhibited by all-transretinyl alpha-bromoacetate and N-boc-L-biocytinyl-11-aminoundecane chloro-methyl ketone (BACMK), function: Transfers the acyl group from the sn-1 position of phosphatidylcholine to all-trans retinol, producing all-trans 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 membraneassociated alcohol dehydrogenase, 11 cis-retinol is oxidized and converted into 11-cis-retinaldehyde which is the chromophore for rhodopsin and the cone photopigments., induction: LRAT activity is up-regulated by dietary vitamin A. Under conditions of vitamin A depletion, LRAT expression in the liver is induced by retinoic acid.,pathway:Cofactor metabolism; retinol metabolism, similarity; Belongs to the H-rev107 family, tissue specificity; 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.,

#### Research Area

Retinol metabolism:

#### **Image Data**



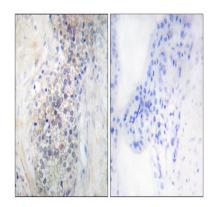
Immunofluorescence analysis of HUVEC cells, using LRAT Antibody. The picture on the right is blocked with the synthesized peptide.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

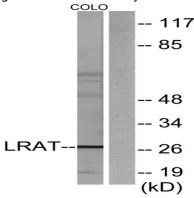
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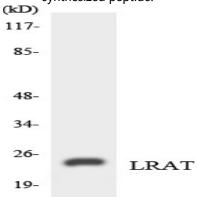




Immunohistochemistry analysis of paraffin-embedded human prostate carcinoma tissue, using LRAT Antibody. The picture on the right is blocked with the synthesized peptide.



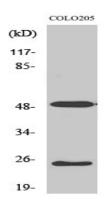
Western blot analysis of lysates from COLO205 cells, using LRAT Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using LRAT antibody.

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**C** EnkiLife



Western Blot analysis of various cells using LRAT Polyclonal Antibody diluted at 1: 500

#### Note

For research use only.