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LRAT Antibody (aa111-160)
Rabbit Polyclonal Antibody
Catalog # ALS15433

Specification

LRAT Antibody (aa111-160) - Product Information

Application	**IF, WB, IHC**
Primary Accession	O95237
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**26kDa KDa**

LRAT Antibody (aa111-160) - Additional Information

Gene ID 9227

Other Names
Lecithin retinol acyltransferase, 2.3.1.135, Phosphatidylcholine--retinol O-acyltransferase, LRAT

Target/Specificity
LRAT Antibody detects endogenous levels of total LRAT protein.

Reconstitution & Storage
Store at -20°C for up to one year.

Precautions
LRAT Antibody (aa111-160) is for research use only and not for use in diagnostic or therapeutic procedures.

LRAT Antibody (aa111-160) - Protein Information

Name LRAT (HGNC:6685)

Function
Transfers the acyl group from the sn-1 position of phosphatidylcholine to all-trans retinol, producing all-trans retinyl esters (PubMed:9920938). Retinyl esters are storage forms of vitamin A (Probable). LRAT plays a critical role in vision (Probable). 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, 11 cis-retinol is oxidized and converted into 11-cis- retinaldehyde which is the chromophore for rhodopsin and the cone photopigments (Probable). Required for the survival of cone photoreceptors and correct rod photoreceptor cell morphology (By similarity).

Cellular Location
Endoplasmic reticulum membrane; Single-pass membrane protein. Rough endoplasmic reticulum. Endosome, multivesicular body. Cytoplasm, perinuclear region. Note=Present in the rough

endoplasmic reticulum and multivesicular body in hepatic stellate cells. Present in the rough endoplasmic reticulum and perinuclear region in endothelial cells (By similarity).

Tissue Location
Hepatic stellate cells and endothelial cells (at protein level). 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

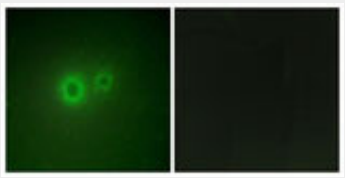
Volume
Array

LRAT Antibody (aa111-160) - Protocols

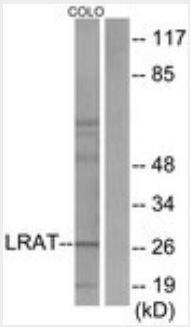
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LRAT Antibody (aa111-160) - Images

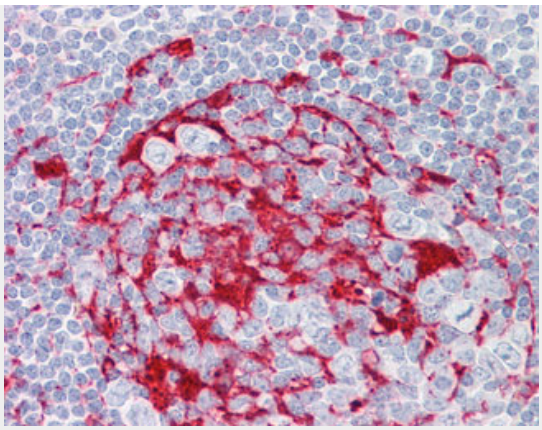


Immunofluorescence of HUVEC cells, using LRAT Antibody.



Western blot of extracts from COLO205 cells, using LRAT Antibody.

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Anti-LRAT antibody IHC of human tonsil.

LRAT Antibody (aa111-160) - Background

Transfers the acyl group from the sn-1 position of phosphatidylcholine to all-trans retinol, producing all-trans retinyl esters. 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 membrane-associated alcohol dehydrogenase, 11 cis-retinol is oxidized and converted into 11-cis-retinaldehyde which is the chromophore for rhodopsin and the cone photopigments.

LRAT Antibody (aa111-160) - References

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