

Anti-LRAT Antibody (aa89-138)

Rabbit Anti Human Polyclonal Antibody

Catalog # ALS18049

Product Information

Application	WB, IHC-P, E
Primary Accession	O95237
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	25703

Additional Information

Gene ID	9227
Alias Symbol	LRAT
Other Names	LRAT, LCA14
Target/Specificity	LRAT antibody detects endogenous levels of LRAT.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-LRAT Antibody (aa89-138) is for research use only and not for use in diagnostic or therapeutic procedures.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.