

Code No. 28153

Anti-Human

LRAT (Lecithin Retinol Acyltransferase) (031) Rabbit IgG A.P. (Affinity Purify)

Volume : 50 μg

Introduction: LRAT is a retinol-esterifying enzyme and it is mainly found in G0 stage of stellate cells

(Ito cells) in liver. At stellate cells, LRAT is thought to take a role engulfing and pooling excess vitamin A released from hepatocytes. As normal hepatocytes are characterized by lipid droplets pooling esterified vitamin A, LRAT is expected to be a marker of stellate cells in G0 stage. LRAT is also expressed in retinal pigment epithelium, small intestine epithelium and skin keratinocyte as well as liver. The physiological significance of LRAT protein at the endothelium is not clarified, yet.

This antibody reacts with stellate cells and endothelia of human.

Antigen: Synthetic peptide of a part of Human LRAT (GKDKGRNSFYETSSF)

Purification: Purified with antigen peptide

Form : Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN₃

How to use: 1.0 mL deionized water will be added to the product (the conc. comes up 50 µg/mL)

Stability: Lyophilized product, 5 years at 2 – 8 °C

: Solution, 2 years at -20 °C

Application: This antibody can be used for immunohistochemistry with formalin fixed paraffin

embedded tissues after microwave treatment or untreated, by several techniques such as Avidin Biotin Complex (ABC) Method. The optimal concentration is about 1 - 5 µg/mL,

however, the concentration should be optimized by each laboratory.

: This antibody can be used for western blotting in concentration of 1 - 5 μ g /mL.

Specificity: React with Human LRAT.

Reference : 1. Nagatsuma K, Hano H, Murakami K, Shindo D, Matsumoto T, Mitobe J, Tanaka K,

Saito M, Maehashi H, Owada M, Ikegami M, Tsubota A, Ohkusa T, Aizawa Y, Takagi I, Tajiri H, Matsuura T. Hepatic stellate cells that coexpress LRAT and CRBP-1 partially contribute to portal fibrogenesis in patients with human viral

hepatitis. Liver Int. 2014 Feb; 34(2):243-52.

2. Nagatsuma K, Hayashi Y, Hano H, Sagara H, Murakami K, Saito M, Masaki T, Lu T, Tanaka M, Enzan H, Aizawa Y, Tajiri H, Matsuura T. Lecithin: retinol acyltransferase

protein is distributed in both hepatic stellate cells and endothelial cells of normal

rodent and human liver. Liver Int. 2009 Jan; 29(1):47-54.