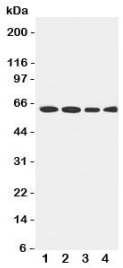
# LCAT Antibody (R31073)

| Catalog No. | Formulation | Size |
|---|---|---|
| R31073 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| **UniProt** | P04180 |
| **Applications** | Western blot: 0.5-1ug/ml |
| **Limitations** | This LCAT antibody is available for research use only. |




Western blot testing of LCAT antibody and Lane 1: rat brain; 2: U87; 3: HeLa; 4: SMMC-7721 cell lysate. Observed size 50~75KD, depending on glycosylation level.

## Description

LCAT (Lecithin: Cholesterol Acyltransferase), is an enzyme that converts free cholesterol into cholesteryl ester. Azoulay et al.(1987) used a cDNA clone corresponding to LCAT to assign the locus to 16q22 through the analysis of DNA from somatic cell hybrids and in situ hybridization. LCAT plays an important role in lipoprotein metabolism, especially in the process termed reverse cholesterol transport The enzyme is synthesized in the liver and circulates in blood plasma as a complex with components of high density lipoprotein(HDL). Cholesterol from peripheral cells is transferred to HDL particles, esterified through the action of LCAT on HDL, and incorporated into the core of the lipoprotein. The cholesterol ester is thereby transported to the liver(Jonas, 2000).

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the LCAT antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Amino acids 300-313 (RDFQRFFADLHFEE-human) were used as the immunogen for this LCAT antibody.

## Storage

After reconstitution, the LCAT antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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