10320 Camino Santa Fe, Suite G
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LAL Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1050a

Specification

LAL Antibody - Product Information

Application	**WB**
Primary Accession	P38571
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a**

Description
Lysosomal acid lipase (LAL), with 378-amino acid protein(43-54 kDa), functions in the lysosome to catalyze the hydrolysis of cholesteryl esters and triglycerides which are taken up by receptor-mediated endocytosis. An inherited deficiency or low activity of human lysosomal acid lipase results in the intralysosomal storage of the respective lipid substrates. So it is also responsible for the rare conditions of Wolman disease and cholesteryl ester storage disease (CESD). As the enzyme is synthesized by all nucleated cells, lipid-laden cells are found in all organs, particularly in liver, spleen, the adrenal and the hemopoietic system, and in the intestine as well as in the lymph nodes, lungs, testes, and ovaries.

Immunogen
Purified recombinant fragment of LAL expressed in E. Coli.

Formulation
Purified antibody in PBS containing 0.03% sodium azide.

LAL Antibody - Additional Information

Gene ID 3988

Other Names
Lysosomal acid lipase/cholesteryl ester hydrolase, Acid cholesteryl ester hydrolase, LAL, 3.1.1.13, Cholesteryl esterase, Lipase A, Sterol esterase, LIPA

Dilution
WB~~1/500 - 1/2000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
LAL Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

LAL Antibody - Protein Information

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Name LIPA

Function
Catalyzes the deacylation of triacylglyceryl and cholesteryl ester core lipids of endocytosed low density lipoproteins to generate free fatty acids and cholesterol.

Cellular Location
Lysosome {ECO:0000250|UniProtKB:Q64194}.

Tissue Location
Most abundantly expressed in brain, lung, kidney and mammary gland, a moderate expression seen in placenta and expressed at low levels in the liver and heart.

LAL Antibody - 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

LAL Antibody - Images

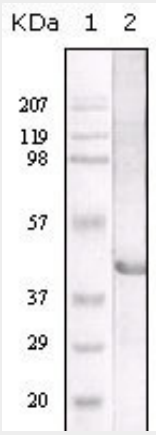


Figure 1: Western blot analysis using LAL mouse mAb against LAL recombinant protein.

LAL Antibody - References

1. Uta Drebber, Matthias Andersen, Hans U Kasper, et al, World J Gastroenterol. 2005 Apr 21;11(15):2364-6. 2. Renata Boldrini, Rita Devito, R.Biselli,et al, Pathol Res Pract. 2004;200(3):231-40.