Immunoway
Best Tools for immunology Research

LAL Monoclonal Antibody

Catalog No :	YM0410
Reactivity :	Human
Applications :	WB;ELISA
Target :	LAL
Fields :	>>Steroid biosynthesis;>>Lysosome;>>Cholesterol metabolism
Gene Name :	LIPA
Protein Name :	Lysosomal acid lipase/cholesteryl ester hydrolase
Human Gene Id :	3988
Human Swiss Prot No :	P38571
Mouse Swiss Prot No :	Q9Z0M5
Immunogen :	Purified recombinant fragment of LAL expressed in E. Coli.
Specificity :	LAL Monoclonal Antibody detects endogenous levels of LAL protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	45kD

Cell Pathway : Steroid biosynthesis;Lysosome;

P 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.

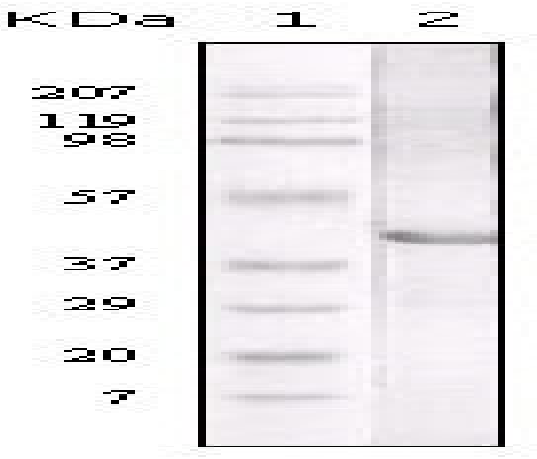
Background : This gene encodes lipase A, the lysosomal acid lipase (also known as cholesterol ester hydrolase). This enzyme functions in the lysosome to catalyze the hydrolysis of cholesteryl esters and triglycerides. Mutations in this gene can result in Wolman disease and cholesteryl ester storage disease. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2014],

Function : catalytic activity:A steryl ester + H(2)O = a sterol + a fatty acid.,disease:Defects in LIPA are the cause of cholesteryl ester storage disease (CESD) [MIM:278000]. CESD is a mild manifestation of LIPA deficiency, leading to the accumulation of cholesteryl esters and triglycerides in most tissues of the body. It is characterized by late-onset.,disease:Defects in LIPA are the cause of Wolman disease (WOD) [MIM:278000]. WOD is a severe manifestation of LIPA deficiency, leading to the accumulation of cholesteryl esters and triglycerides in most tissues of the body. WOD occurs in infancy and is nearly always fatal before the age of 1 year.,function:Crucial for the intracellular hydrolysis of cholesteryl esters and triglycerides that have been internalized via receptor-mediated endocytosis of lipoprotein particles. Important in mediating the effect of LDL (low density lipoprotein) uptake on s

Subcellular Location : Lysosome .

Expression : 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.

Products Images



Western Blot analysis using LAL Monoclonal Antibody against LAL recombinant protein.