abcam

Product datasheet

Anti-Lysosomal acid lipase/LAL antibody [9G7F12] ab36597

★★★★★ 1 Abreviews 3 References 3 Images

Overview

Product name Anti-Lysosomal acid lipase/LAL antibody [9G7F12]

Description Mouse monoclonal [9G7F12] to Lysosomal acid lipase/LAL

Host species Mouse

Tested applications Suitable for: Flow Cyt, WB, IHC-P

Species reactivity Reacts with: Human, Recombinant fragment

Immunogen Recombinant fragment corresponding to Lysosomal acid lipase/LAL.

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or

contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer Preservative: 0.05% Sodium azide

Constituent: PBS

Purity Protein G purified

Purification notes Purified from tissue culture supernatant.

ClonalityMonoclonalClone number9G7F12IsotypeIgG2a

Applications

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The Abpromise guarantee

Our Abpromise guarantee covers the use of ab36597 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 0.5µg for 10 ⁶ cells. ab170191 - Mouse monoclonal lgG2a, is suitable for use as an isotype control with this antibody.
WB	★★★ ☆☆ (1)	1/500 - 1/2000. Detects a band of approximately 45 kDa (predicted molecular weight: 46 kDa).
IHC-P		Use a concentration of 2 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

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 suppression of hydroxymethylglutaryl-CoA

reductase and activation of endogenous cellular cholesteryl ester formation.

Involvement in 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.

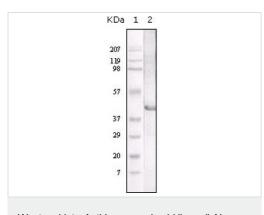
Defects in LIPA are the cause of cholesteryl ester storage disease (CESD) [MIM:278000]. CESD is a mild manifestation of LIPA deficiency, leading to the accumulation of cholesteryl esters and

triglycerides in most tissues of the body. It is characterized by late-onset.

Sequence similaritiesBelongs to the AB hydrolase superfamily. Lipase family.

Cellular localization Lysosome.

Images



Western blot - Anti-Lysosomal acid lipase/LAL antibody [9G7F12] (ab36597)

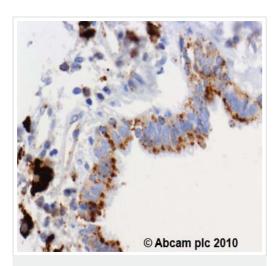
All lanes : Anti-Lysosomal acid lipase/LAL antibody [9G7F12]

(ab36597)

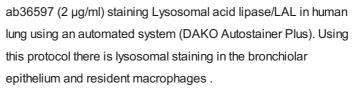
Lane 1: Molecular weight marker

Lane 2: Truncated LAL recombinant protein

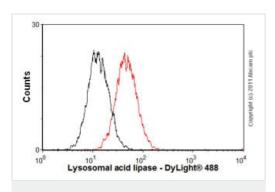
Predicted band size: 46 kDa Observed band size: ~45 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Lysosomal acid lipase/LAL antibody [9G7F12] (ab36597)



Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer citrate pH 6.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.



Flow Cytometry - Anti-Lysosomal acid lipase/LAL antibody [9G7F12] (ab36597)

Overlay histogram showing HepG2 cells stained with ab36597 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab36597, 0.5 μ g/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (ab91361, 1 μ g/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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