abcam

Product datasheet

Anti-ACAT1 antibody [9H10AB4] ab110290

1 References 4 图像

概述

产品名称	Anti-ACAT1抗体[9H10AB4]
描述	小鼠单克隆抗体[9H10AB4] to ACAT1
宿主	Mouse
经测试应用	**适用于:** ICC, Flow Cyt, IP, IHC-P
种属反应性	**与反应:** Human
免疫原	Tissue, cells or virus. This information is considered to be commercially sensitive.
阳性对照	ICC: Human HDFn cells IHC-P: Human cerebellumIP: HepG2 cells and Human liver mitochondria Flow Cyt: HeLa cells
常规说明	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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 Product was previously marketed under the MitoSciences sub-brand.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline
纯度	Ammonium Sulphate Precipitation
纯化说明	Purity near homogeneity as judge by SDS-PAGE. The antibody was produced in-vitro using hybridomas grown in serum-free medium and then purified by biochemical fractionation.
克隆	单克隆

克隆编号	9H10AB4
同种型	IgG2a
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab110290于以下的经测试应用**

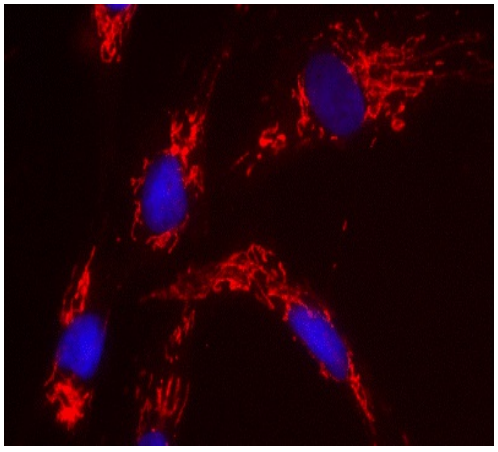
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC		Use a concentration of 5 µg/ml.
Flow Cyt		Use a concentration of 1 µg/ml. **ab170191** - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
IP		Use at an assay dependent concentration.
IHC-P		1/100. Perform heat mediated antigen retrieval via the pressure cooker method (1 minute, with 1 mmol EDTA at pH8) before commencing with IHC staining protocol.

靶标

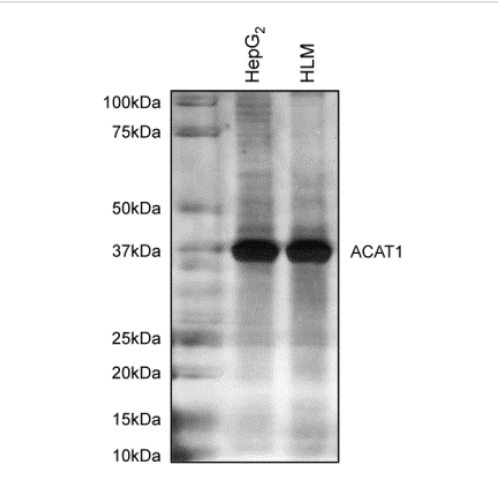
功能	Plays a major role in ketone body metabolism.
疾病相关	Defects in ACAT1 are a cause of 3-ketothiolase deficiency (3KTD) [MIM:203750]; also known as alpha-methylacetoaceticaciduria. 3KTD is an inborn error of isoleucine catabolism characterized by intermittent ketoacidotic attacks associated with unconsciousness. Some patients die during an attack or are mentally retarded. Urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, triglylglycine, butanone is increased. It seems likely that the severity of this disease correlates better with the environmental or acquired factors than with the ACAT1 genotype.
序列相似性	Belongs to the thiolase family.
细胞定位	Mitochondrion.

图片



Immunocytochemistry - Anti-ACAT1 antibody [9H10AB4] (ab110290)

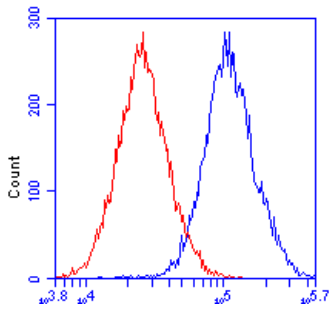
Immunocytochemistry image of ab110290 stained human HDFn cells. The cells were paraformaldehyde fixed (4%, 20 min) and Triton X-100 permeabilized (0.1%, 15 min). The cells were incubated with the antibody (9H10AB4, 5 µg/ml) for 2 hours at room temperature or over night at 4°C. The secondary antibody was (red) Alexa Fluor® 594 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1 hour. 10% Goat serum was used as the blocking agent for all blocking steps. DAPI was used to stain the cell nuclei (blue). Target protein locates mainly in mitochondria.



Immunoprecipitation - Anti-ACAT1 antibody [9H10AB4] (ab110290)

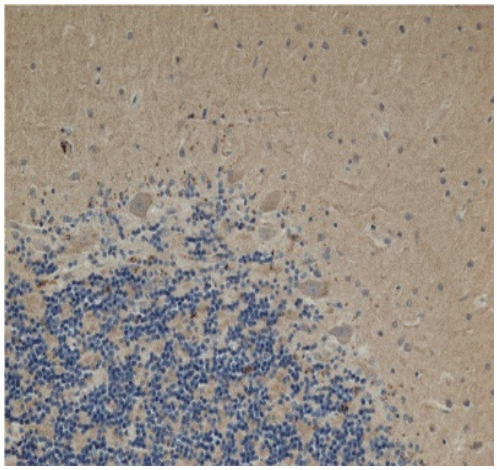
ab110290 immunocaptured from HepG2 cells (lane 1) and Human liver mitochondria (lane 2)

Predicted molecular weight is 44 kDa.



Flow Cytometry - Anti-ACAT1 antibody [9H10AB4] (ab110290)

ab110290, at 1 µg/mL, staining ACAT1 in HeLa (blue) or in an isotype control antibody (red) and analyzed by flow cytometry.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACAT1 antibody [9H10AB4] (ab110290)

ACAT1 immunohistochemistry in human cerebellum visualized with ab110290. ACAT1 immunoactivity is most intense in neuronal cell bodies, most notably in the large Purkinje cells. Note the distinctive subcellular localization of ACAT1 immunoreactivity in the Purkinje cell bodies. The functional significance of this pattern is unknown at present but this antibody offers the opportunity to investigate it in more detail.

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