abcam

Product datasheet

Anti-Adipose Triglyceride Lipase antibody ab99532

1 Abreviews 11 References 2 图像

概述

产品名称	Anti-Adipose Triglyceride Lipase抗体
描述	**兔多克隆抗体**to Adipose Triglyceride Lipase
宿主	Rabbit
经测试应用	**适用于:** IHC-P, WB
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Cow, Pig, Chimpanzee, Macaque monkey, Chinese hamster, Orangutan
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	This antibody gave a positive signal in HepG2; WERI and Y79 human whole cell lysates as well as the following tissue lysates: Mouse Brown Adipose; Rat Brown Adipose; Human Heart; Human Liver. This antibody gave a positive result in IHC in the following FFPE tissue: Human Heart muscle.
常规说明	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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab99532于以下的经测试应用**

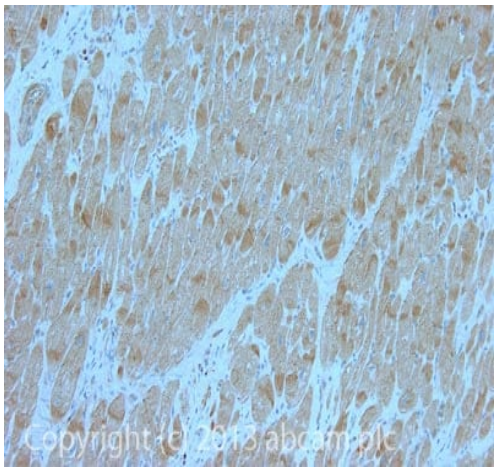
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 58 kDa (predicted molecular weight: 55 kDa).

靶标

功能	Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets. Also has acylglycerol transacylase activity. May act coordinately with LIPE/HLS within the lipolytic cascade. Regulates adiposome size and may be involved in the degradation of adiposomes. May play an important role in energy homeostasis. May play a role in the response of the organism to starvation, enhancing hydrolysis of triglycerides and providing free fatty acids to other tissues to be oxidized in situations of energy depletion.
组织特异性	Highest expression in adipose tissue. Also detected in heart, skeletal muscle, and portions of the gastrointestinal tract. Detected in normal retina and retinoblastoma cells. Detected in retinal pigment epithelium and, at lower intensity, in the inner segments of photoreceptors and in the ganglion cell layer of the neural retina (at protein level).
通路	Glycerolipid metabolism; triacylglycerol degradation.
疾病相关	Note=Genetic variations in PNPLA2 may be associated with risk of diabetes mellitus type 2. Defects in PNPLA2 are the cause of neutral lipid storage disease with myopathy (NLSDM) [MIM:610717]; also known as neutral lipid storage disease without ichthyosis. NSLDM is a neutral lipid storage disorder (NLSD) with myopathy but without ichthyosis. NLSDs are characterized by the presence of triglyceride-containing cytoplasmic droplets in leukocytes and in other tissues, including bone marrow, skin, and muscle. Individuals with NLSDM did not show obesity, in spite of a defect in triglyceride degradation in fibroblasts and in marked triglyceride storage in liver, muscles, and other visceral cells.
序列相似性	Contains 1 patatin domain.
发展阶段	Induced during differentiation of primary preadipocytes to adipocytes. Expression increased from fetal to adult in retinal pigment epithelium.
细胞定位	Lipid droplet. Cell membrane.

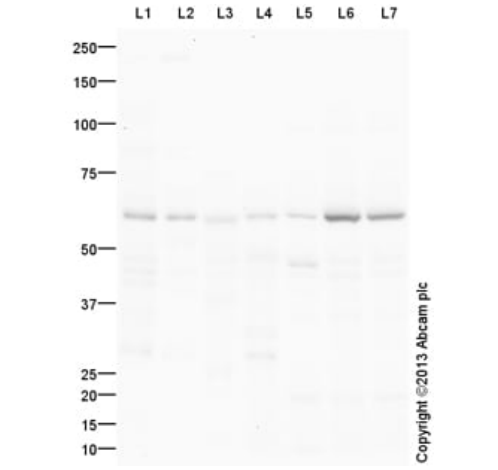
图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adipose Triglyceride Lipase antibody (ab99532)

IHC image of Adipose Triglyceride Lipase staining in Human Heart muscle formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab99532, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-Adipose Triglyceride Lipase antibody (ab99532)

All lanes : Anti-Adipose Triglyceride Lipase antibody (ab99532) at 1 µg/ml

Lane 1 : Adult Mouse Brown Adipose Tissue Tissue Lysate
Lane 2 : Human heart tissue lysate - total protein (**ab29431**)
Lane 3 : Human liver tissue lysate - total protein (**ab29889**)
Lane 4 : Adult Rat Brown Adipose Tissue Tissue Lysate
Lane 5 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate
Lane 6 : WERI (Human Retinoblastoma) Whole Cell Lysate
Lane 7 : Y79 (Human retinoblastoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 55 kDa
Observed band size: 58 kDa
Additional bands at: 48 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 10 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab99532 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution

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