

Anti-ABCA1 antibody [AB.H10] ab18180

敲除验证

★★★★☆ [18 Abreviews](#) [188 References](#) [4 图像](#)

概述

产品名称	Anti-ABCA1抗体[AB.H10]
描述	小鼠单克隆抗体[AB.H10] to ABCA1
宿主	Mouse
经测试应用	适用于: IHC-P, Flow Cyt, WB
种属反应性	与反应: Mouse, Human
免疫原	Recombinant fragment corresponding to Human ABCA1 aa 1800-2260. Database link: O95477
阳性对照	testis, liver, and brain tissue (negative control: muscle tissue)
常规说明	<p>This product was changed from ascites to tissue culture supernatant on 5th February 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>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.</p> <p>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</p>

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: 7.20 Preservative: 0.05% Sodium azide Constituent: PBS
纯度	Protein A purified
纯化说明	Protein A purified from TCS

克隆	单克隆
克隆编号	AB.H10
同种型	IgG1

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab18180于以下的经测试应用

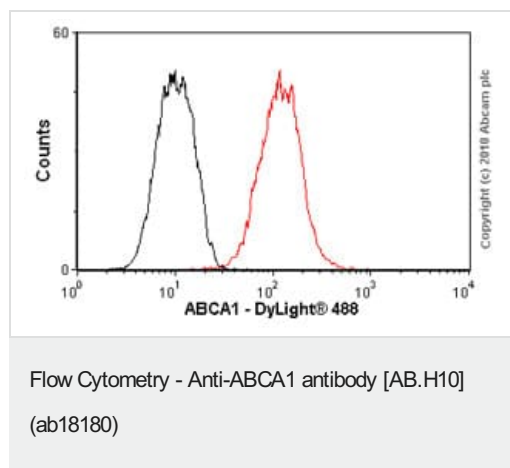
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/200. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt	★★★★★ (3)	Use 1-2µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (13)	1/200 - 1/500. Predicted molecular weight: 254 kDa. Abcam recommends using BSA as the blocking agent and 80-100 ug of lysate.

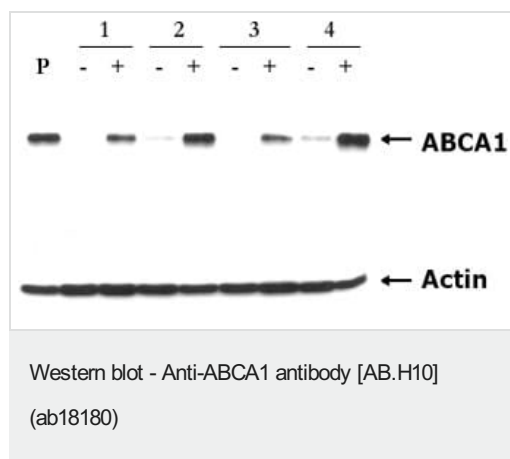
靶标

功能	cAMP-dependent and sulfonylurea-sensitive anion transporter. Key gatekeeper influencing intracellular cholesterol transport.
组织特异性	Widely expressed, but most abundant in macrophages.
疾病相关	Defects in ABCA1 are a cause of high density lipoprotein deficiency type 1 (HDLD1) [MIM:205400]; also known as analphalipoproteinemia or Tangier disease (TGD). HDLD1 is a recessive disorder characterized by absence of high density lipoprotein (HDL) cholesterol from plasma, accumulation of cholesteryl esters, premature coronary artery disease (CAD), hepatosplenomegaly, recurrent peripheral neuropathy and progressive muscle wasting and weakness. Defects in ABCA1 are a cause of high density lipoprotein deficiency type 2 (HDLD2) [MIM:604091]; also known as familial hypoalphalipoproteinemia (FHA). HDLD2 is inherited as autosomal dominant trait. It is characterized by moderately low HDL cholesterol, predilection toward premature coronary artery disease (CAD) and a reduction in cellular cholesterol efflux.
序列相似性	Belongs to the ABC transporter superfamily. ABCA family. Contains 2 ABC transporter domains.
结构域	Multifunctional polypeptide with two homologous halves, each containing an hydrophobic membrane-anchoring domain and an ATP binding cassette (ABC) domain.
翻译后修饰	Phosphorylation on Ser-2054 regulates phospholipid efflux. Palmitoylation by DHHC8 is essential for membrane localization.
细胞定位	Membrane.

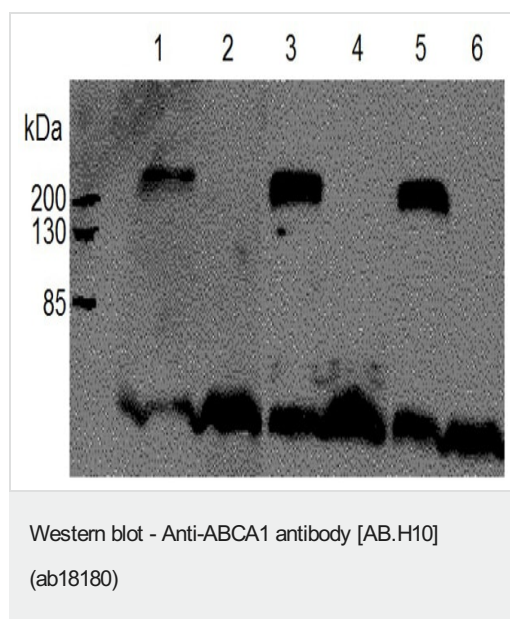
图片



Overlay histogram showing HepG2 cells stained with ab18180 (red line). The cells were fixed with 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 (ab18180, 2µg/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 IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HepG2 cells fixed with 4% paraformaldehyde/permeabilized in 0.1% PBS-Tween used under the same conditions.



Western blot analysis of ABCA1 induction by cholesterol (+) in human fibroblast cells from different patients (1,2,3,4). Simultaneous blotting with anti-actin antibody was used for protein loading control. Western blot analysis of ABCA1 induction by cholesterol (+) in human fibroblast cells from different patients (1,2,3,4). Simultaneous blotting with anti-actin antibody was used for protein loading control.



All lanes : Anti-ABCA1 antibody [AB.H10] (ab18180) at 1/1000 dilution

Lanes 1 & 3 & 5 : Wild type mouse liver tissue lysate

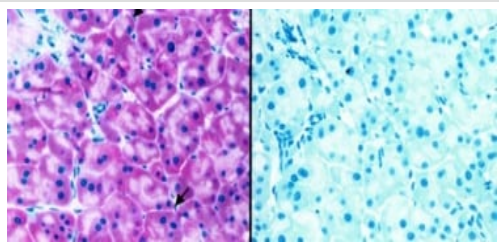
Lanes 2 & 4 & 6 : Knockout mouse liver tissue lysate

Lysates/proteins at 100 µg per lane.

Predicted band size: 254 kDa

Observed band size: 254 kDa

The lower bands are from the secondary anti-mouse antibody reacting to the endogenous mouse antibodies from the tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABCA1 antibody [AB.H10] (ab18180)

Immunoreactivity of pancreas tissue for ABCA1 protein. Left panel: strong immunopositivity of exocrine glandular cells of the pancreas, especially in the basal region (arrows). Interstitial microvascular cells are apparently negative. Cells within the islet were weakly positive (data not shown). Right panel: the negative control. Hematoxylin counterstain.

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