

Anti-HMGCL antibody [EPR15551] ab197022

重组 RabMAb

1 References **5 图像**

概述

产品名称	Anti-HMGCL抗体[EPR15551]
描述	兔单克隆抗体[EPR15551] to HMGCL
宿主	Rabbit
经测试应用	适用于: IHC-P, WB
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: 293, Human testis and A431 cell lysates. IHC: Human liver tissue.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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 long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR15551
同种型	IgG

应用

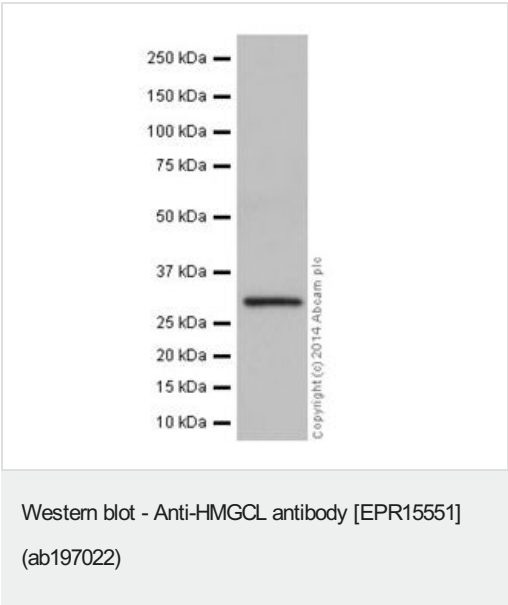
The Abpromise guarantee **Abpromise™**承诺保证使用ab197022于以下的经测试应用
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).

靶标

功能	Involved in the catabolism of branched amino acids such as leucine.
组织特异性	Fibroblasts, liver and lymphoblasts.
通路	Metabolic intermediate metabolism; (S)-3-hydroxy-3-methylglutaryl-CoA degradation; acetoacetate from (S)-3-hydroxy-3-methylglutaryl-CoA: step 1/1.
疾病相关	Defects in HMGCL are the cause of 3-hydroxy-3-methylglutaryl-CoA lyase deficiency (HMGCLD) [MIM:246450]; also known as hydroxymethylglutaricaciduria or HL deficiency. An autosomal recessive disease affecting ketogenesis and L-leucine catabolism. The disease usually appears in the first year of life after a fasting period and its clinical acute symptoms include vomiting, seizures, metabolic acidosis, hypoketotic hypoglycemia and lethargy. These symptoms sometimes progress to coma, with fatal outcome in some cases.
序列相似性	Belongs to the HMG-CoA lyase family.
细胞定位	Mitochondrion matrix.

图片



Anti-HMGCL antibody [EPR15551] (ab197022) at 1/1000 dilution + 293 (Human epithelial cells from embryonic kidney) cell lysate at 20 µg

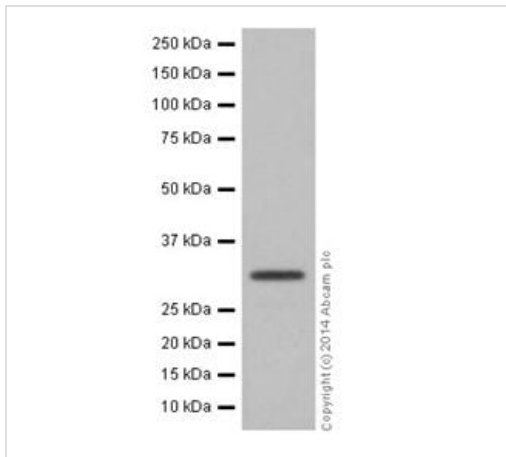
Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 34 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-HMGCL antibody [EPR15551]
(ab197022)

Anti-HMGCL antibody [EPR15551] (ab197022) at 1/5000 dilution +
Human testis lysate at 10 µg

Secondary

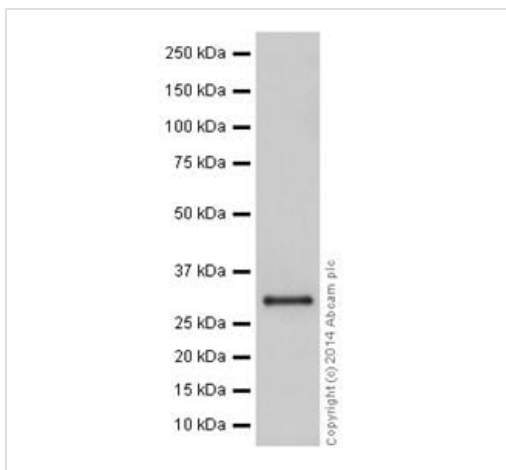
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at
1/1000 dilution

Developed using the ECL technique.

Predicted band size: 34 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-HMGCL antibody [EPR15551]
(ab197022)

Anti-HMGCL antibody [EPR15551] (ab197022) at 1/10000 dilution
+ A431 (Human epidermoid carcinoma) cell lysate at 20 µg

Secondary

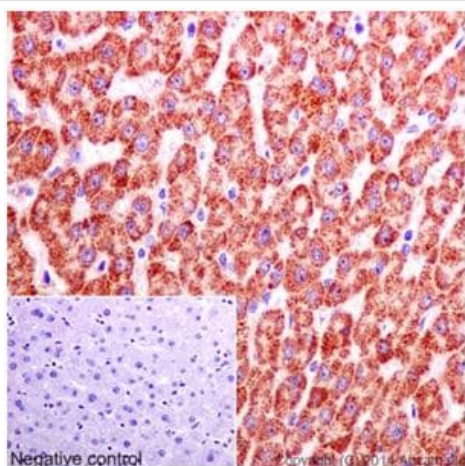
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at
1/1000 dilution

Developed using the ECL technique.

Predicted band size: 34 kDa

Exposure time: 3 minutes

Blocking/dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGCL antibody [EPR15551] (ab197022)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling HMGCL with ab197022 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Counter stained with hematoxylin.

Inset image: negative control obtained using PBS instead of ab197022 and secondary antibody only.

Note: Cytoplasm staining on human liver tissue was observed.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-HMGCL antibody [EPR15551] (ab197022)

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