

Anti-Collagen VI antibody [EPR17077] - C-terminal ab199720

敲除验证
重组
RabMAb

★★★★☆
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概述

产品名称	Anti-Collagen VI抗体[EPR17077] - C-terminal
描述	兔单克隆抗体[EPR17077] to Collagen VI - C-terminal
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
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Human fetal heart, skeletal muscle and WI-38 (Human lung) whole cell lysate. Mouse heart, kidney and spleen. Rat heart, kidney and spleen. NIH/3T3 whole cell lysate. IHC-P: Human colon and Mouse cardiac muscle 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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR17077

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab199720于以下的经测试应用

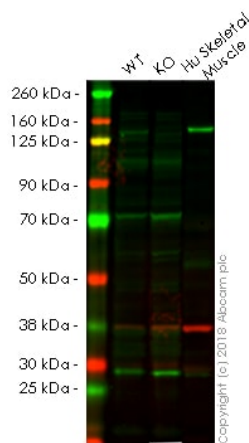
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★★★☆ (4)	1/800. 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 147 kDa (predicted molecular weight: 109 kDa).

靶标

功能	Collagen VI acts as a cell-binding protein.
疾病相关	<p>Defects in COL6A1 are a cause of Bethlem myopathy (BM) [MIM:158810]. BM is a rare autosomal dominant proximal myopathy characterized by early childhood onset (complete penetrance by the age of 5) and joint contractures most frequently affecting the elbows and ankles.</p> <p>Defects in COL6A1 are a cause of Ullrich congenital muscular dystrophy (UCMD) [MIM:254090]; also known as Ullrich scleroatonic muscular dystrophy. UCMD is an autosomal recessive congenital myopathy characterized by muscle weakness and multiple joint contractures, generally noted at birth or early infancy. The clinical course is more severe than in Bethlem myopathy.</p>
序列相似性	<p>Belongs to the type VI collagen family.</p> <p>Contains 3 VWFA domains.</p>
翻译后修饰	Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.
细胞定位	Secreted > extracellular space > extracellular matrix.

图片



Western blot - Anti-Collagen VI antibody
[EPR17077] - C-terminal (ab199720)

All lanes : Anti-Collagen VI antibody [EPR17077] - C-terminal
(ab199720) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T whole cell lysate

Lane 2 : COL6A1 knockout HEK-293T whole cell lysate

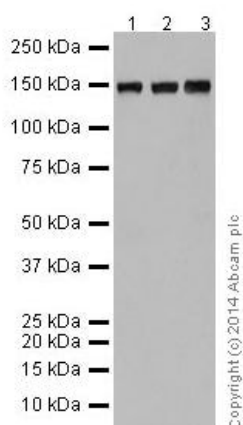
Lane 3 : Human Skeletal Muscle whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 109 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab199720
observed at 109 kDa. Red - loading control, [ab9484](#), observed at
37 kDa.

ab199720 was shown to recognize Collagen VI in wild-type Hek
293T cells as signal was lost at the expected MW in COL6A1
knockout cells. Additional cross-reactive bands were observed in
the wild-type and knockout cells. Wild-type and COL6A1 knockout
samples were subjected to SDS-PAGE. Ab199720 and [ab9484](#)
(Mouse anti GAPDH loading control) were incubated overnight at
4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were
developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW)
preabsorbed [ab216773](#) and Goat anti-Mouse IgG H&L (IRDye®
680RD) preabsorbed [ab216776](#) secondary antibodies at 1/20000
dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Collagen VI antibody
[EPR17077] - C-terminal (ab199720)

All lanes : Anti-Collagen VI antibody [EPR17077] - C-terminal
(ab199720) at 1/10000 dilution

Lane 1 : Human fetal heart

Lane 2 : Human skeletal muscle

Lane 3 : WI-38 (Human lung) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

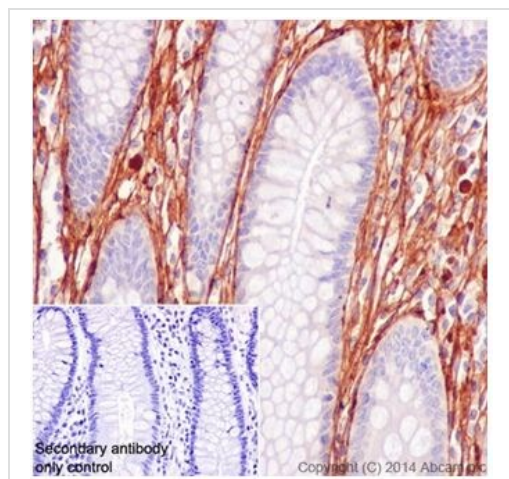
Predicted band size: 109 kDa

Observed band size: 147 kDa

Exposure time: 15 seconds

Blocking/dilution buffer: 5% NFDM/TBST.

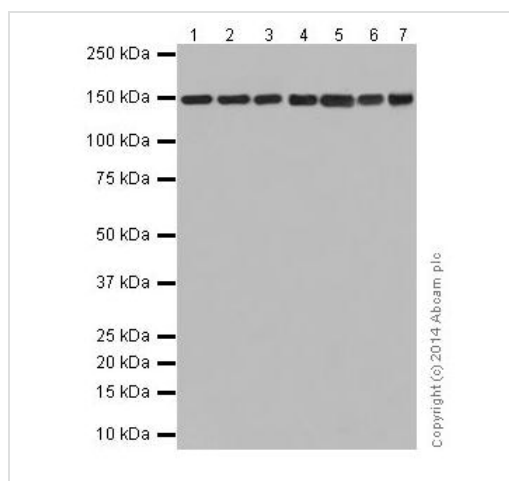
The observed MW is consistent with what has been described in the following literature: PMID:16130093 and 21186846



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Collagen VI antibody [EPR17077] - C-terminal (ab199720)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Collagen VI with ab199720 at 1/1600 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasm staining on stromal cells of Human colon tissue is observed. Counter stained with Hematoxylin. Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)).

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



Western blot - Anti-Collagen VI antibody [EPR17077] - C-terminal (ab199720)

All lanes : Anti-Collagen VI antibody [EPR17077] - C-terminal (ab199720) at 1/1000 dilution

Lane 1 : Mouse heart

Lane 2 : Mouse kidney

Lane 3 : Mouse spleen

Lane 4 : Rat heart

Lane 5 : Rat kidney

Lane 6 : Rat spleen

Lane 7 : NIH/3T3 (mouse embryo) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

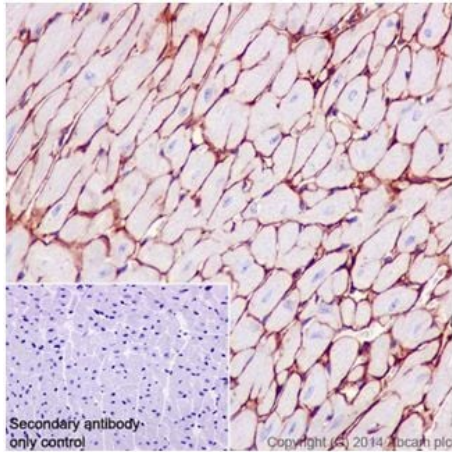
Predicted band size: 109 kDa

Observed band size: 147 kDa

Exposure time: 10 seconds

Blocking/dilution buffer: 5% NFDM/TBST.

The observed MW is consistent with what has been described in the following literature: PMID:16130093 and 21186846



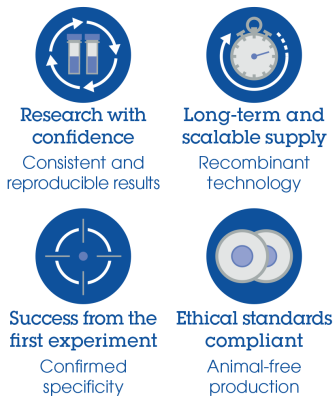
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Collagen VI antibody [EPR17077] - C-terminal (ab199720)

Immunohistochemical analysis of paraffin-embedded Mouse cardiac muscle tissue labeling Collagen VI with ab199720 at 1/1600 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Extracellular matrix staining on mouse cardiac muscle tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**).

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

Why choose a recombinant antibody?



Anti-Collagen VI antibody [EPR17077] - C-terminal (ab199720)

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