abcam

Product datasheet

Anti-Extracellular matrix protein 1 antibody [EPR22411-279] ab253185

敲除验证 重组 RabMAb

1 Abreviews 1 References 9 图像

概述

产品名称	Anti-Extracellular matrix蛋白1抗体[EPR22411-279]
描述	兔单克隆抗体[EPR22411-279] to Extracellular matrix蛋白1
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, IP, IHC-P **不适用于:** ICC/IF
种属反应性	**与反应:** Mouse, Rat
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: 4T1, LLC1, Hepa1-6 whole cell lysate. Mouse and rat skin and liver lysates. Wild-type mouse liver lysate. Flow Cyt (intra): 4T1 cells. IP: Mouse liver and lung whole cell lysate.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
纯度	Protein A purified
克隆	单克隆

克隆编号	EPR22411-279
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab253185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。

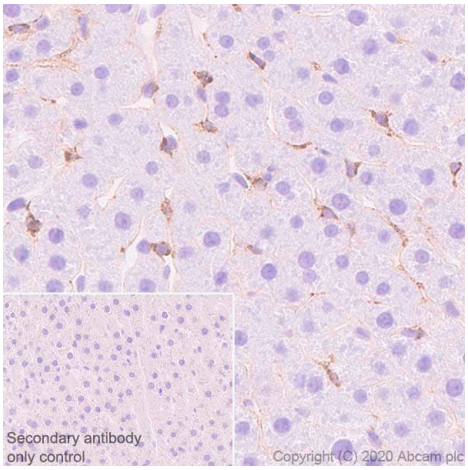
应用	Ab评论	说明
Flow Cyt (Intra)		1/500.
WB		1/1000. Detects a band of approximately 48, 85 kDa (predicted molecular weight: 63 kDa).
IP		1/30.
IHC-P		Use at an assay dependent concentration.

应用说明 Is unsuitable for ICC/IF.

靶标

功能	Involved in endochondral bone formation as negative regulator of bone mineralization. Stimulates the proliferation of endothelial cells and promotes angiogenesis. Inhibits MMP9 proteolytic activity.
组织特异性	Expressed in breast cancer tissues. Little or no expression observed in normal breast tissues. Expressed in skin; wide expression is observed throughout the dermis with minimal expression in the epidermis.
疾病相关	Defects in ECM1 are the cause of lipoid proteinosis (LiP) [MIM:247100]; also known as lipoid proteinosis of Urbach and Wiethe or hyalinosis cutis et mucosae. LiP is a rare autosomal recessive disorder characterized by generalized thickening of skin, mucosae and certain viscera. Classical features include beaded eyelid papules and laryngeal infiltration leading to hoarseness. Histologically, there is widespread deposition of hyaline material and disruption/reduplication of basement membrane.
细胞定位	Secreted > extracellular space > extracellular matrix.

图片

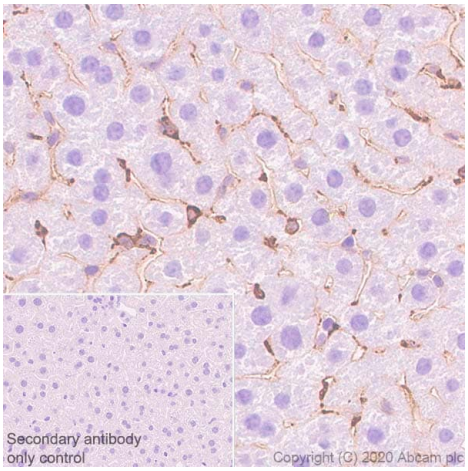


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185)

Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling Extracellular matrix protein 1 with ab253185 at 1/5000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). The section was incubated with ab253185 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer)

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

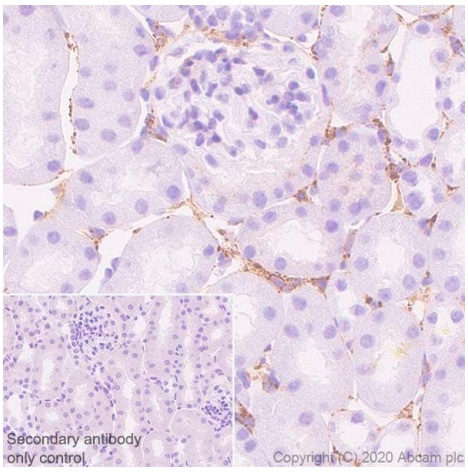


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185)

Immunohistochemical analysis of paraffin-embedded Mouse live tissue labeling Extracellular matrix protein 1 with ab253185 at 1/5000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). The section was incubated with ab253185 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer)

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

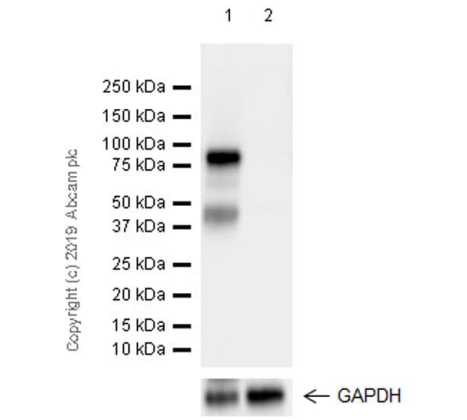


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185)

Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labeling Extracellular matrix protein 1 with ab253185 at 1/5000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer). The section was incubated with ab253185 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP Polymer)

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Western blot - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185)

All lanes : Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185) at 1/1000 dilution

Lane 1 : Wild-type mouse liver lysate
Lane 2 : ECM1 knockout mouse liver lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 63 kDa
Observed band size: 48,85 kDa

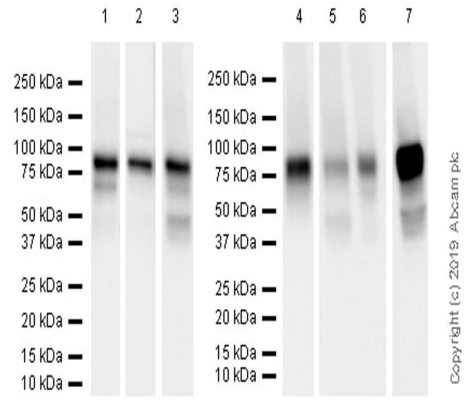
The wild-type and ECM1 knockout mouse liver lysates were kindly provided by an anonymous collaborator.

ab253185 was shown to specifically react with Extracellular matrix protein 1 in wild-type mouse liver as signal was lost in ECM1 knockout liver. Wild-type and ECM1 knockout samples were subjected to SDS-PAGE. ab253185 and **ab181602** (Rabbit anti-

GAPDH loading control) were incubated 1 hour at room temperature at 1/1000 dilution and 1/200,000 dilution respectively. Blots were developed with Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) secondary antibody at 1/50,000 dilution for 1 hour at room temperature before imaging. The blot was developed on a BIO-RAD® ChemiDoc™ MP instrument using the ECL technique.

Exposure time 7.75 secs.

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185)

All lanes : Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185) at 1/1000 dilution

Lane 1 : 4T1 (mouse mammary gland carcinoma epithelial cell), whole cell lysate
Lane 2 : LLC1 (mouse lung carcinoma), whole cell lysate
Lane 3 : Hepa1-6 (mouse hepatoma epithelial cell), whole cell lysate
Lane 4 : Mouse skin lysate
Lane 5 : Mouse liver lysate
Lane 6 : Rat skin lysate
Lane 7 : Rat liver lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

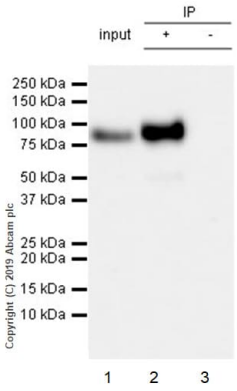
Predicted band size: 63 kDa
Observed band size: 48,85 kDa

Mouse ECM1 has two isoforms: A long isoform reported to be 85 kDa, and the shorter form 48 kDa.

The molecular weight observed is consistent with what has been described in the literature (PMID: 7608209; PMID: 23202415).

Exposure times: Lanes 1-2: 7.75 seconds; Lane 3: 1 second; Lanes 4-7: 10 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunoprecipitation - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185)

Extracellular matrix protein 1 was immunoprecipitated from 0.35 mg mouse lung lysate with ab253185 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab253185 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

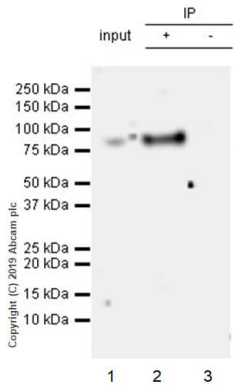
Lane 1: Mouse lung lysate 10µg.

Lane 2: ab253185 IP in mouse lung lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab253185 in mouse lung lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds.



Immunoprecipitation - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185)

Extracellular matrix protein 1 was immunoprecipitated from 0.35 mg mouse liver lysate with ab253185 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab253185 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

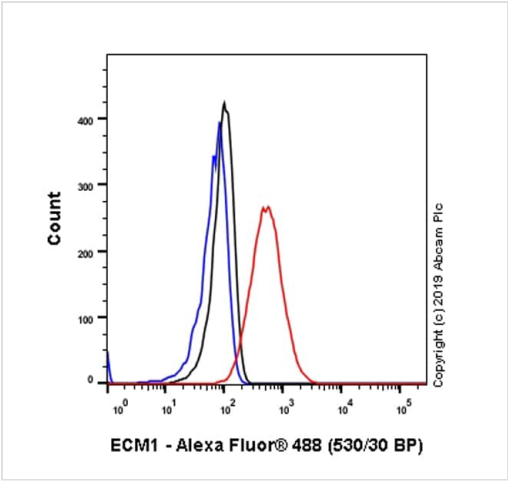
Lane 1: Mouse liver lysate 10µg.

Lane 2: ab253185 IP in mouse liver lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab253185 in mouse liver lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 mins.



Flow Cytometry (Intracellular) - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized 4T1 (mouse mammary gland carcinoma epithelial cell) cells labeling Extracellular matrix protein 1 with ab253185 at 1/500 (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185)

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