

Anti-CD73 antibody [EPR6114] ab133582

敲除验证
重组
RabMAb

★★★★★
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概述

产品名称	Anti-CD73抗体[EPR6114]
描述	兔单克隆抗体[EPR6114] to CD73
宿主	Rabbit
经测试应用	适用于: IHC-P, WB 不适用于: Flow Cyt, ICC/IF or IP
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: Human fetal liver tissue lysate, Human liver, Human spleen; A375 and HepG2 whole cell lysate (ab7900) IHC-P: Human lung carcinoma, Human tonsil 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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号 EPR6114

同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab133582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		1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For unpurified use ad 1/100 - 1/250. See <u>IHC antigen retrieval protocols</u> .
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 63 kDa.

应用说明 Is unsuitable for Flow Cyt, ICC/IF or IP.

靶标

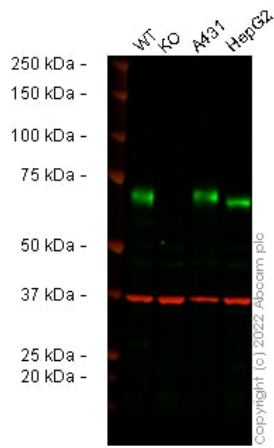
功能 Hydrolyzes extracellular nucleotides into membrane permeable nucleosides.

疾病相关 Defects in NT5E are the cause of calcification of joints and arteries (CAJA) [MIM:211800]. A condition characterized by adult-onset calcification of the lower extremity arteries, including the iliac, femoral and tibial arteries, and hand and foot capsule joints. Age of onset has been reported as early as the second decade of life, usually involving intense joint pain or calcification in the hands.

序列相似性 Belongs to the 5'-nucleotidase family.

细胞定位 Cell membrane.

图片



Western blot - Anti-CD73 antibody [EPR6114] (ab133582)

All lanes : Anti-CD73 antibody [EPR6114] (ab133582) at 1/1000 dilution

Lane 1 : Wild-type A-375 cell lysate

Lane 2 : NT5E knockout A-375 cell lysate

Lane 3 : A431 cell lysate

Lane 4 : HepG2 cell lysate

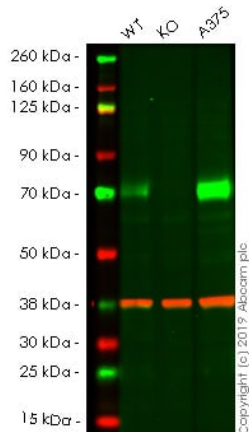
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 63 kDa

Observed band size: 70 kDa

False colour image of Western blot: Anti-CD73 antibody [EPR6114] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab133582 was shown to bind specifically to CD73. A band was observed at 70 kDa in wild-type A-375 cell lysates with no signal observed at this size in NT5E knockout cell line [ab281591](#) (knockout cell lysate [ab282943](#)). To generate this image, wild-type and NT5E knockout A-375 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



Western blot - Anti-CD73 antibody [EPR6114]
(ab133582)

All lanes : Anti-CD73 antibody [EPR6114] (ab133582) at 1/1000 dilution

Lane 1 : Wild-type A-431 (Human epidermoid carcinoma cell line) whole cell lysate

Lane 2 : NT5E knockout A-431 (Human epidermoid carcinoma cell line) whole cell lysate

Lane 3 : A-375 (Human malignant melanoma cell line) whole cell lysate

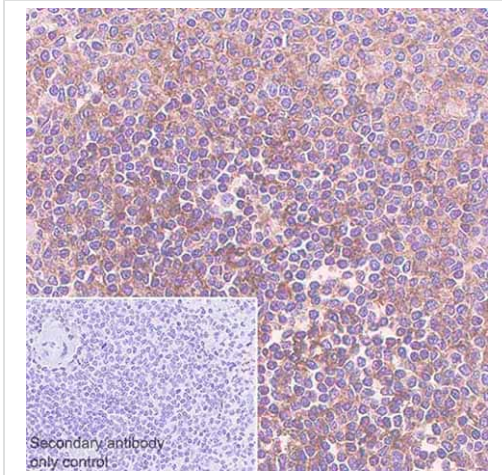
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 63 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab133582 observed at 63 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab133582 was shown to recognize NT5E in wild-type A-431 cells as signal was lost at the expected MW in NT5E knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and NT5E knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab133582 and **ab8245** (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.



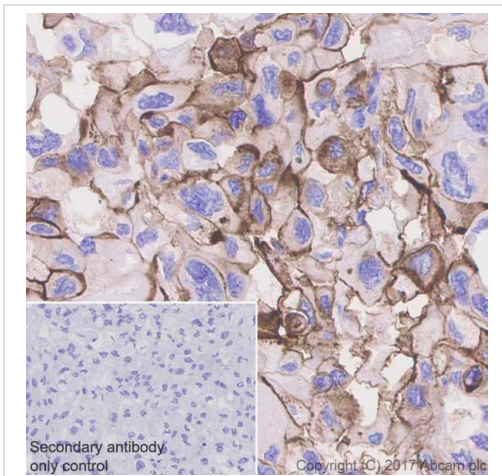
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD73 antibody [EPR6114] (ab133582)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue sections labeling CD73 with Purified ab133582 at 1:2000 dilution (1.12 µg/ml).

Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

ImmunoHistoProbe one step HRP Polymer (ready to use) was used.

Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD73 antibody [EPR6114] (ab133582)

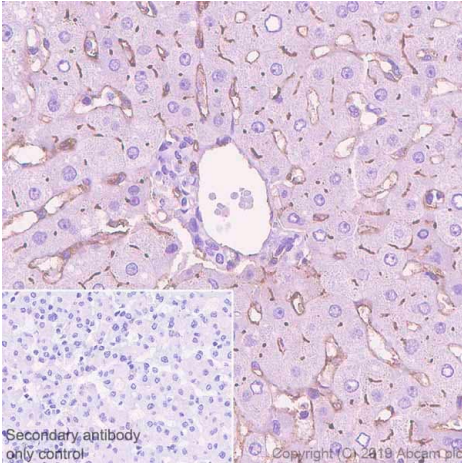
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue sections labeling CD73 with Purified ab133582 at 1:2000 dilution (1.12 µg/ml).

Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

ImmunoHistoProbe one step HRP Polymer (ready to use) was used.

Negative control: PBS instead of the primary antibody.

Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD73 antibody [EPR6114] (ab133582)

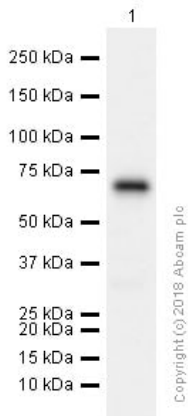
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue sections labeling CD73 with Purified ab133582 at 1:2000 dilution (1.12 µg/ml).

Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0).

ImmunoHistoProbe one step HRP Polymer (ready to use) was used.

Negative control: PBS instead of the primary antibody.

Hematoxylin was used as a counterstain.



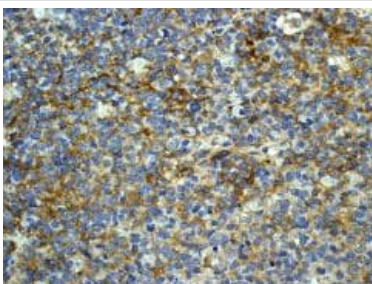
Western blot - Anti-CD73 antibody [EPR6114] (ab133582)

Anti-CD73 antibody [EPR6114] (ab133582) at 1/1000 dilution + A375 (Human malignant melanoma epithelial cell) whole cell lysates at 15 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

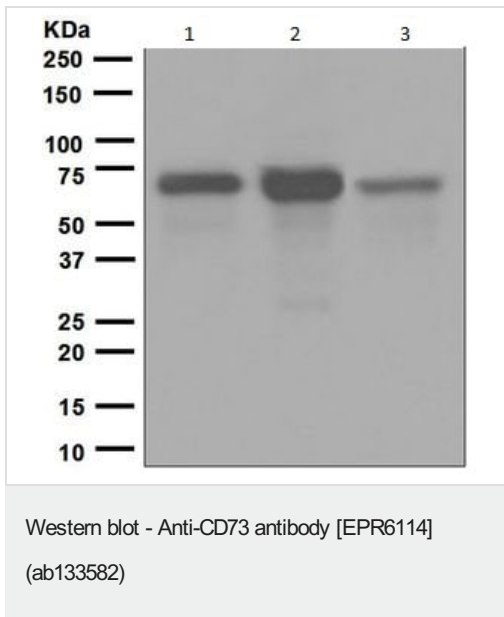
Predicted band size: 63 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD73 antibody [EPR6114] (ab133582)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labelling CD73 with ab133582 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



All lanes : Anti-CD73 antibody [EPR6114] (ab133582) at 1/1000 dilution

Lane 1 : Human fetal liver tissue lysate

Lane 2 : A375 cell lysate

Lane 3 : HepG2 cell lysate





Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled Goat anti-Rabbit IgG at 1/2000 dilution

Predicted band size: 63 kDa

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-CD73 antibody [EPR6114] (ab133582)

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