abcam

Product datasheet

Anti-CD147 antibody [EPR4053] ab108308

敲除验证 重组 RabMAb

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概述

产品名称	Anti-CD147抗体[EPR4053]
描述	兔单克隆抗体[EPR4053] to CD147
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P, Flow Cyt, ICC/IF
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: A549, Raji, HEK-293T, Jurkat, HuT-78, A431, U-87 MG and HeLa cell lysates; IHC-P: Human colon cancer tissue; ICC/IF: HeLa cells; Flow Cyt: HeLa cells. WB: HeLa and U-87 MG 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**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR4053
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab108308**于以下的**经测试应用

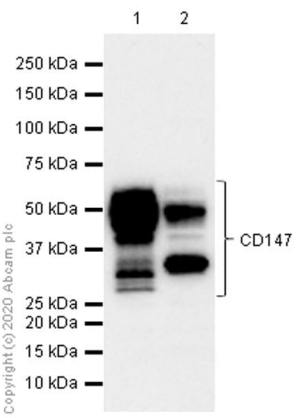
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Predicted molecular weight: 42 kDa.
IHC-P	★★★☆☆ (1)	1/3000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/250 - 1/500.**
Flow Cyt		1/30.
ICC/IF		1/50. **For unpurified use at 1/500.**

靶标

功能	Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPS). May target monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to plasma membranes of retinal pigment epithelium and neural retina. Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes.
组织特异性	Present only in vascular endothelium in non-neoplastic regions of the brain, whereas it is present in tumor cells but not in proliferating blood vessels in malignant gliomas.
序列相似性	Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
翻译后修饰	N-glycosylated.
细胞定位	Cell membrane. Melanosome. Colocalizes with SLC16A1 and SLC16A8 (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

图片



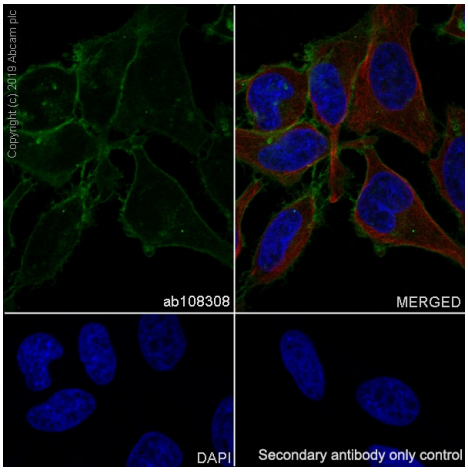
Western blot - Anti-CD147 antibody [EPR4053] (ab108308)

All lanes : Anti-CD147 antibody [EPR4053] (ab108308) at 1/1000 dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell) whole cell lysate

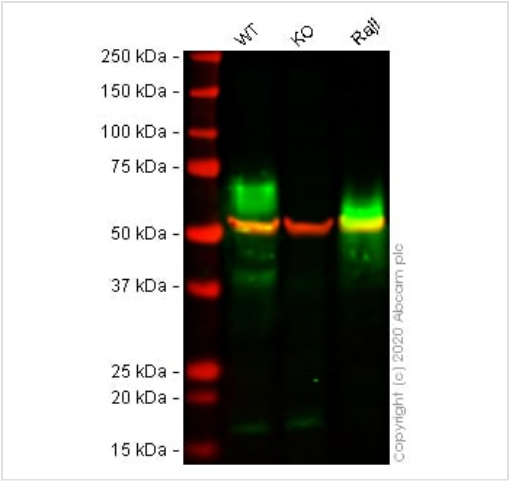
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 42 kDa



Immunocytochemistry/ Immunofluorescence - Anti-CD147 antibody [EPR4053] (ab108308)

Immunocytochemistry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling CD147 with purified ab108308 at 1:50 dilution (6.3 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor ® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor ® 488 ,**ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-CD147 antibody [EPR4053] (ab108308)

All lanes : Anti-CD147 antibody [EPR4053] (ab108308) at 1/1000 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : BSG knockout A549 cell lysate
Lane 3 : Raji cell lysate

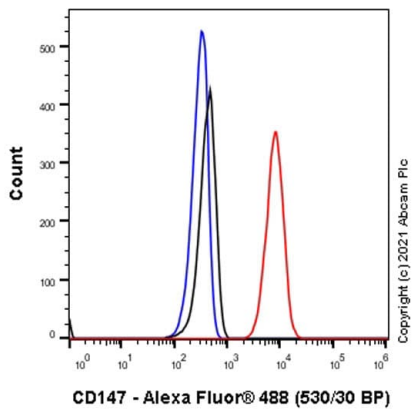
Lysates/proteins at 30 µg per lane.

Performed under reducing conditions.

Predicted band size: 42 kDa
Observed band size: 42-70 kDa

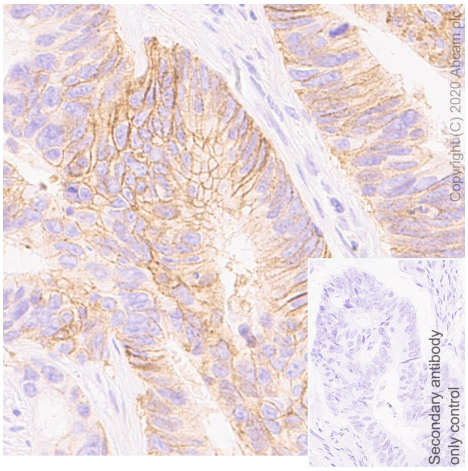
Lanes 1 - 3: Merged signal (red and green). Green - ab108308 observed at 42-70 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A] observed at 55kDa.

ab108308 was shown to react with CD147 in wild-type A549 cells in western blot with loss of signal observed in BSG knockout cell line **ab273748** (knockout cell lysate **ab275500**). Wild-type and BSG knockout A549 cell lysates were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab108308 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A] overnight at 4°C at a 1 in 1000 Dilution and a 1 in 20000 dilution respectively. Blots were incubated 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 in 20000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry - Anti-CD147 antibody [EPR4053] (ab108308)

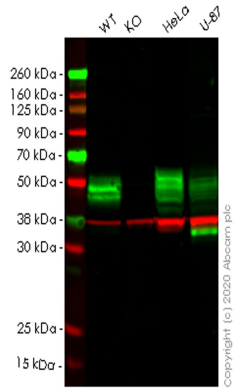
Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling CD147 with purified ab108308 at 1/30 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD147 antibody [EPR4053] (ab108308)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon cancer tissue sections labeling CD147 with purified ab108308 at 1/3000 dilution (0.1 µg/mL). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1/0 dilution. PBS instead of the primary antibody was used as the negative control.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument



Western blot - Anti-CD147 antibody [EPR4053] (ab108308)

All lanes : Anti-CD147 antibody [EPR4053] (ab108308) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : BSG knockout HEK293T cell lysate
Lane 3 : HeLa cell lysate
Lane 4 : U-87 MG cell lysate

Lysates/proteins at 20 µg per lane.

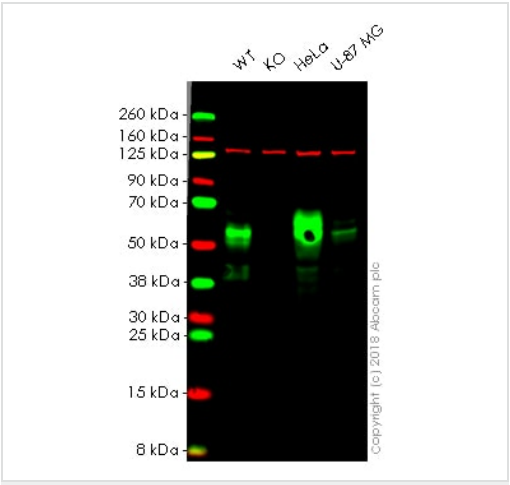
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 42 kDa
Observed band size: 50 kDa

Lanes 1-4: Merged signal (red and green). Green - ab108308 observed at 50 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab108308 Anti-CD147 antibody [EPR4053] was shown to specifically react with CD147 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266331** (knockout cell lysate **ab256853**) was used. Wild-type and CD147 knockout samples were subjected to SDS-PAGE. ab108308 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-CD147 antibody [EPR4053] (ab108308)

All lanes : Anti-CD147 antibody [EPR4053] (ab108308) at 1/1000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : BSG (Basigin) knockout HAP1 whole cell lysate
Lane 3 : HeLa whole cell lysate
Lane 4 : U-87 MG whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 42 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab108308 observed at 42 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab108308 was shown to specifically react with Basigin in wild-type HAP1 cells as signal was lost in BSG (Basigin) knockout cells.

Wild-type and BSG (Basigin) knockout samples were subjected to SDS-PAGE. Ab108308 and **ab18058** (Mouse anti-Vinculin 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.

Anti-CD147 antibody [EPR4053] (ab108308)

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