

Anti-CD147 antibody [EPR18008-8] - BSA and Azide free ab222389

 **RabMAb**

8 图像

概述

| | |
|-------|--|
| 产品名称 | Anti-CD147抗体[EPR18008-8] - BSA and Azide free |
| 描述 | 兔单克隆抗体[EPR18008-8] to CD147 - BSA and Azide free |
| 宿主 | Rabbit |
| 经测试应用 | 适用于: Sandwich ELISA, WB, IHC-P, Flow Cyt, IP, ICC/IF |
| 种属反应性 | 与反应: Mouse, Recombinant fragment |
| 免疫原 | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| 阳性对照 | WB: Mouse CD147 recombinant protein fragment; RAW 264.7, WEHI-3 and bEND.3 whole cell lysates; mouse liver lysate. IHC-P: Mouse intestine tissue. ICC/IF: WEHI-231 and bEND.3 cells. Flow Cyt: C57 BL/6 mouse thymocytes. IP: RAW 264.7 whole cell lysate. |
| 常规说明 | <p>ab222389 is the carrier-free version of ab188190.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</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

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|----|--------|
| 形式 | Liquid |
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|------|---|
| 存放说明 | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| 存储溶液 | pH: 7.2 Constituent: PBS |
| 无载体 | 是 |
| 纯度 | Protein A purified |
| 克隆 | 单克隆 |
| 克隆编号 | EPR18008-8 |
| 同种型 | IgG |

应用

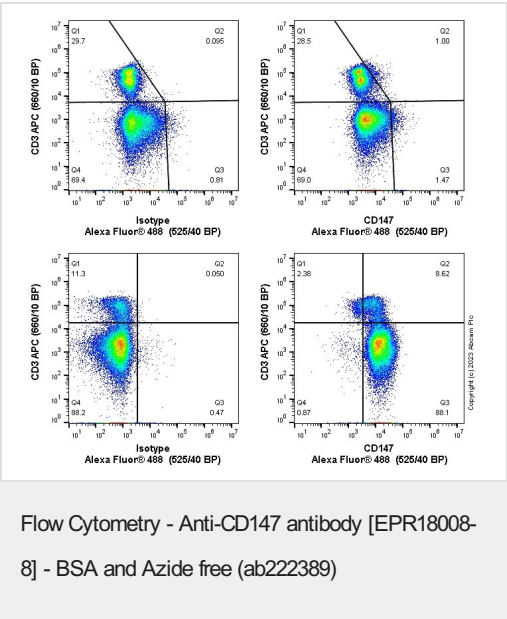
The Abpromise guarantee **Abpromise™**承诺保证使用ab222389于以下的经测试应用

“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 |
|----------------|------|---|
| Sandwich ELISA | | Use at an assay dependent concentration. |
| WB | | Use at an assay dependent concentration. Detects a band of approximately 55 kDa (predicted molecular weight: 42 kDa). |
| IHC-P | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |
| Flow Cyt | | Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use an isotype control with this antibody. |
| IP | | Use at an assay dependent concentration. |
| ICC/IF | | Use at an assay dependent concentration. |

靶标

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|-------|---|
| 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. |

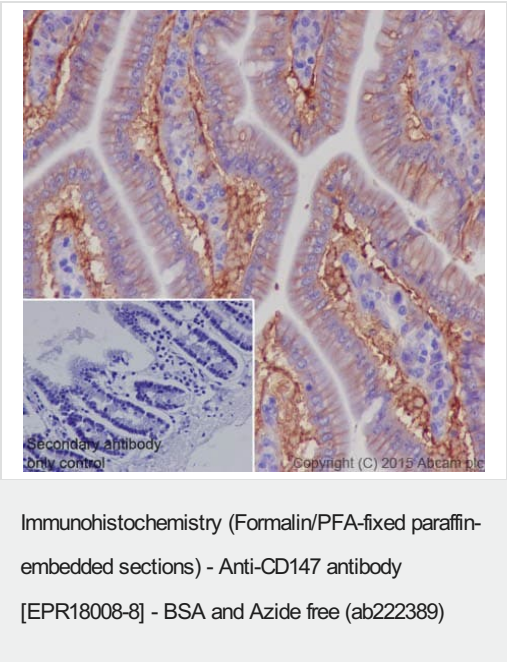


This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab188190](#)).

Flow cytometry staining of C57 BL/6 mouse splenocytes (top) or C57 BL/6 mouse thymocytes (bottom), with [ab188190](#) (right) or Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control (left). Splenocytes or thymocytes were incubated for 30 min at 4°C in 1x PBS containing 10µg/ml anti CD16/CD32 and 10% normal goat serum to block FC receptors and non-specific protein-protein interaction followed by [ab188190](#) or Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control (1x 10⁶ in 100 µl at 0.1 µg/ml (1/21900)) for 30 min at 4°C. The cells were simultaneously stained with CD3.

The secondary antibody Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was incubated at 1/4000 for 30min at 4°C

Acquisition of >30000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter. Events were gated on viable cells.

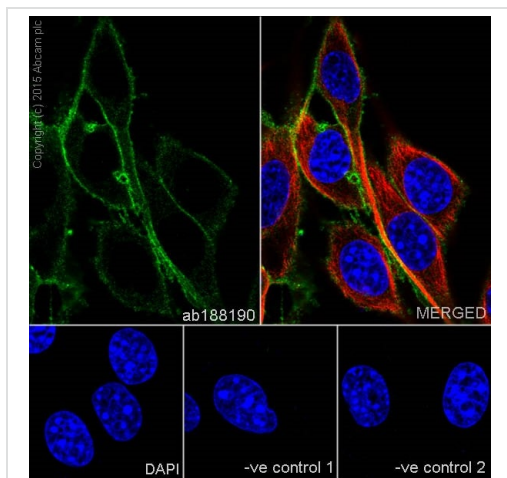


Immunohistochemical analysis of paraffin-embedded mouse intestine tissue labeling CD147 with [ab188190](#) at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Membrane staining on mouse intestine is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab188190](#)).

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



Immunocytochemistry/ Immunofluorescence - Anti-CD147 antibody [EPR18008-8] - BSA and Azide free (ab222389)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized bEND.3 (Mouse brain capillary endothelial cell line) cells labeling CD147 with **ab188190** at 1/250 dilution, followed by by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cell membrane staining on bEND.3 cell line. The nuclear counter stain is DAPI (blue).

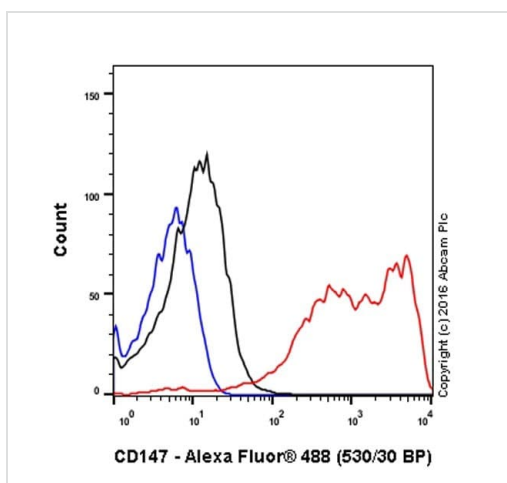
Tubulin is detected with Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) secondary antibody at 1/1000 dilution (red).

The negative controls are as follows:

-ve control 1: **ab188190** at 1/250 dilution followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) secondary antibody at 1/1000 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

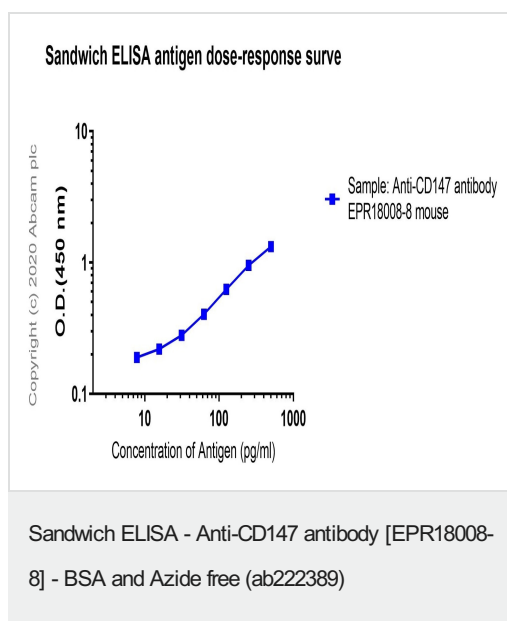
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab188190**).



Flow Cytometry - Anti-CD147 antibody [EPR18008-8] - BSA and Azide free (ab222389)

Flow cytometric analysis of fresh mouse thymocytes labeling CD147 with **ab188190** at 1/200 dilution (red) compared with Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**; black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody; blue). Goat Anti-Rabbit IgG (Alexa Fluor® 488) at 1/500 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab188190**).

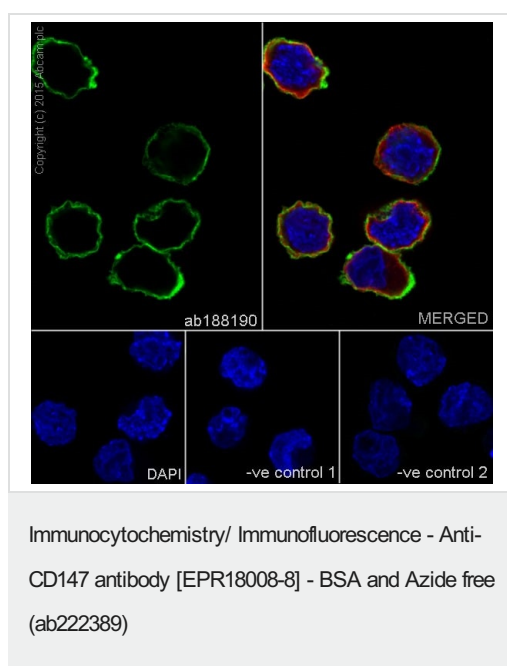


Standard Curve for CD147 (Analyte: Recombinant mouse CD147 protein) dilution range 0 pg/mL to 500 pg/mL using Capture antibody at 0.2 ug/mL and Detector Antibody at 0.5 ug/mL. Secondary antibody: Peroxidase Streptavidin SA-HRP at 1/20000 dilution. Concentration of **ab188190** may vary from lot to lot; please use this curve as guideline.

Washing buffer: 1X PBST

Blocking/Diluting buffer and concentration: 1% BSA/PBS

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab188190**).



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized WEHI-231 (Mouse B Cell Lymphoma cell line) cells labeling CD147 with **ab188190** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cell membrane staining on WEHI-231 cell line. The nuclear counter stain is DAPI (blue).

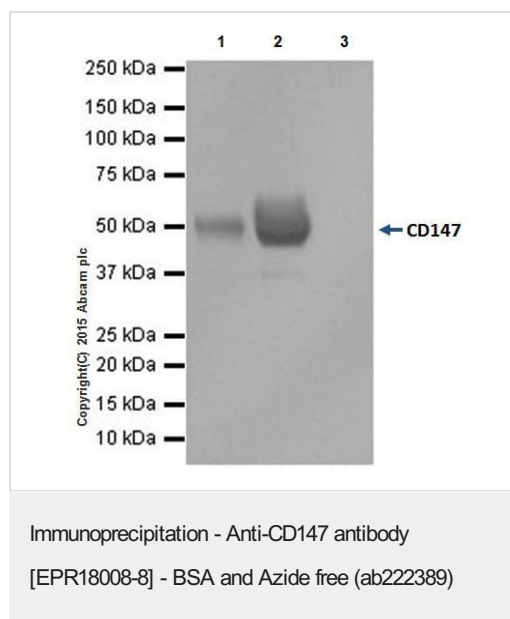
Tubulin is detected with Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) secondary antibody at 1/1000 dilution (red).

The negative controls are as follows:

-ve control 1: **ab188190** at 1/250 dilution followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) secondary antibody at 1/1000 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab188190**).



CD147 was immunoprecipitated from 1 mg of RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate with **ab188190** at 1/50 dilution. Western blot was performed from the immunoprecipitate using **ab188190** at 1/5000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: RAW 264.7 whole cell lysate 10µg (Input).

Lane 2: **ab188190** IP in RAW 264.7 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab188190** in RAW 264.7 whole cell lysate.

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

Exposure time: 1 second.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab188190**).

Why choose a recombinant antibody?

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|--|--|
| <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-CD147 antibody [EPR18008-8] - BSA and Azide free (ab222389)

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