**Product datasheet**

**Anti-CD147 antibody [EPR4052] ab108317**

<table>
<thead>
<tr>
<th>Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Host species</strong></td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
</tr>
<tr>
<td><strong>General notes</strong></td>
</tr>
</tbody>
</table>

**We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.**

This product is a recombinant rabbit monoclonal antibody.

<table>
<thead>
<tr>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
</tr>
</tbody>
</table>
| **Storage buffer** | pH: 7.20  
Preservative: 0.01% Sodium azide  
Constituents: 40% Glycerol, 0.05% BSA, 59% PBS |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR4052 |
Isotype

IgG

Applications

Our Abpromise guarantee covers the use of ab108317 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/1000 - 1/10000. Detects a band of approximately 55 kDa (predicted molecular weight: 42 kDa).</td>
<td></td>
</tr>
<tr>
<td>IHC-P</td>
<td>1/250 - 1/500. See IHC antigen retrieval protocols. Antigen retrieval is recommended.</td>
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</tr>
<tr>
<td>ICC/IF</td>
<td>1/50 - 1/100.</td>
<td></td>
</tr>
</tbody>
</table>

Target

Function


Tissue specificity

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.

Sequence similarities

Contains 1 Ig-like C2-type (immunoglobulin-like) domain.

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Post-translational modifications

N-glycosylated.

Cellular localization

Cell membrane. Melanosome. Colocalizes with SLC16A1 and SLC16A8 (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Anti-CD147 antibody [EPR4052] (ab108317) at 1/1000 dilution (purified) + Rat kidney cell lysate at 10 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 42 kDa

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

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Anti-CD147 antibody [EPR4052] (ab108317) at 1/1000 dilution (purified) + Mouse kidney lysate at 10 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 42 kDa

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

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All lanes: Anti-CD147 antibody [EPR4052] (ab108317) at 1/1000 dilution (purified)

Lane 1: HeLa cell lysate
Lane 2: Jurkat cell lysate
Lane 3: HuT-78 cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 42 kDa
Blocking buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM /TBST.

All lanes: Anti-CD147 antibody [EPR4052] (ab108317) at 1/1000 dilution (unpurified)

Lane 1: A431 cell lysate
Lane 2: HeLa cell lysate
Lane 3: Jurkat cell lysate
Lane 4: HuT-78 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 42 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cervix carcinoma tissue labelling CD147 with purified ab108317 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a goat anti-rabbit IgG H&L (HRP) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human ovary carcinoma tissue labelling CD147 with unpurified ab108317 at 1/250.

Immunocytochemistry/Immunofluorescence analysis of Jurkat (human acute T cell leukemia) cells labelling CD147 with purified ab108317 at 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. ab7291, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/100) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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