# Product datasheet

## Anti-CD147 antibody [EPR4052] ab108317

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## Properties

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<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.</td>
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</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>
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<td>WB</td>
<td></td>
<td>1/1000 - 1/10000. Detects a band of approximately 55 kDa (predicted molecular weight: 42 kDa).</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★☆</td>
<td>1/250 - 1/500. See IHC antigen retrieval protocols. Antigen retrieval is recommended.</td>
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<tr>
<td>ICC/IF</td>
<td></td>
<td>1/50 - 1/100.</td>
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**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.

**Images**
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.

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.

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human ovary carcinoma tissue labelling CD147 with unpurified ab108317 at 1/250.

Immunocytochemistry/Immunofluorescence - Anti-CD147 antibody [EPR4052] (ab108317)

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).

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