

## Product datasheet

### Anti-EPCR/CD201 antibody [EPR25647-49] ab300565

Recombinant RabMAb

8 Images

#### Overview

<b>Product name</b>	Anti-EPCR/CD201 antibody [EPR25647-49]
<b>Description</b>	Rabbit monoclonal [EPR25647-49] to EPCR/CD201
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Does not react with:</b> Rat
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HUVEC, Ea.Hy926, RKO, Jurkat, bEnd.3, B16-F10 whole cell lysates; HUVEC whole cell lysate treated with Protein Deglycosylation Mix II; human placenta, lung, skin tissue lysates. IHC-P: Human kidney, placenta, colon cancer FFPE tissue sections.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

<b>Clone number</b>	EPR25647-49
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab300565 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/1000.
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for Flow Cyt, ICC/IF or IP.

## Target

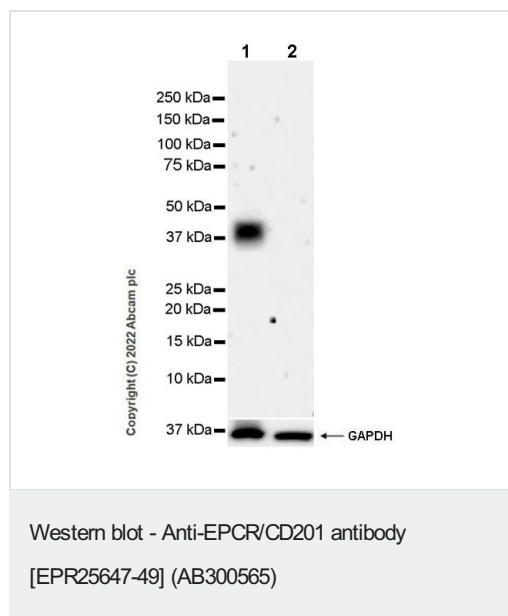
<b>Function</b>	Binds activated protein C. Enhances protein C activation by the thrombin-thrombomodulin complex; plays a role in the protein C pathway controlling blood coagulation.
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<b>Tissue specificity</b>	Expressed strongly in the endothelial cells of arteries and veins in heart and lung, less intensely in capillaries in the lung and skin, and not at all in the endothelium of small vessels of the liver and kidney.
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<b>Post-translational modifications</b>	N-glycosylated. A soluble form exists; probably released by a metalloprotease. Seems to have the same activity as the membrane-bound form.
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<b>Cellular localization</b>	Membrane.
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## Images



**All lanes** : Anti-EPCR/CD201 antibody [EPR25647-49] (ab300565) at 1/1000 dilution

**Lane 1 :** bEnd.3 (mouse brain endothelioma), whole cell lysate

**Lane 2 :** B16-F10 (mouse skin melanoma mixture of spindle-shaped and epithelial-like), whole cell lysate

Lysates/proteins at 20  $\mu$ g per lane.

## Secondary

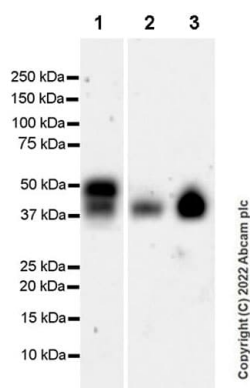
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Observed band size:** 45 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Negative control: B16-F10 (PMID: 19188668)

Exposure time: 3 minutes



Western blot - Anti-EPCR/CD201 antibody  
[EPR25647-49] (AB300565)

**All lanes** : Anti-EPCR/CD201 antibody [EPR25647-49]  
(ab300565) at 1/1000 dilution

**Lane 1** : Human placenta tissue lysate

**Lane 2** : Human lung tissue lysate

**Lane 3** : Human skin tissue lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

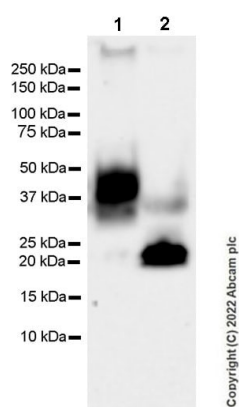
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at  
1/100000 dilution

**Observed band size:** 45 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

The band beneath the target band is supposed to be a soluble form.  
(PMID: 19806250)

Exposure time: Lane 1: 70 seconds Lane 2, 3: 3 minutes



Western blot - Anti-EPCR/CD201 antibody  
[EPR25647-49] (AB300565)

**All lanes** : Anti-EPCR/CD201 antibody [EPR25647-49]  
(ab300565) at 1/1000 dilution

**Lane 1** : Untreated HUVEC whole cell lysate

**Lane 2** : HUVEC whole cell lysate treated with Protein  
Deglycosylation Mix II

Lysates/proteins at 20 µg per lane.

#### Secondary

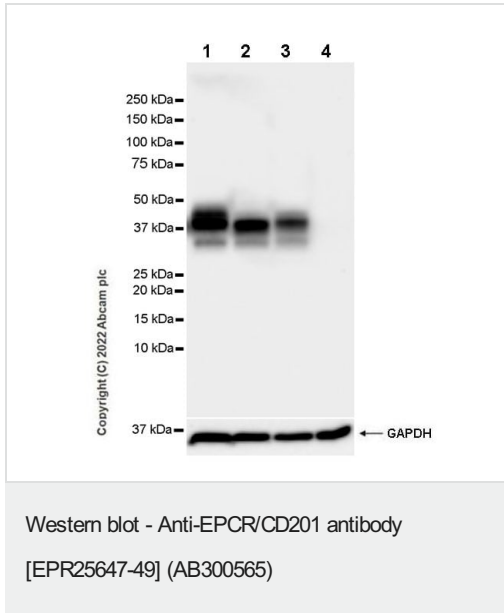
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at  
1/100000 dilution

**Observed band size:** 23,45 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

PROCR is a glycoprotein of approximately 45 kDa and detected as a 23kDa band after treated with Protein Deglycosylation MIX II.

Exposure time: 26 seconds



**All lanes :** Anti-EPCR/CD201 antibody [EPR25647-49] (ab300565) at 1/1000 dilution

**Lane 1 :** HUVEC (human umbilical vein endothelial cell), whole cell lysate

**Lane 2 :** Ea.Hy926 (human somatic cell hybrid endothelial), whole cell lysate

**Lane 3 :** RKO (human colon epithelial cell), whole cell lysate

**Lane 4 :** Jurkat (human T cell leukemia T lymphocyte), whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

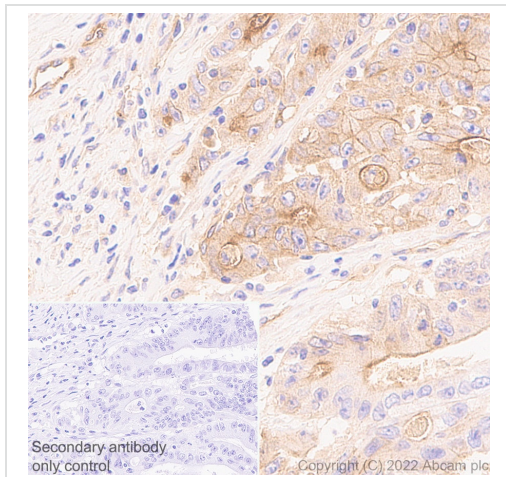
**Observed band size:** 45 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Negative control: Jurkat (PMID: 7929370)

The band beneath the target band is supposed to be a soluble form. (PMID: 19806250)

Exposure time: 15 seconds

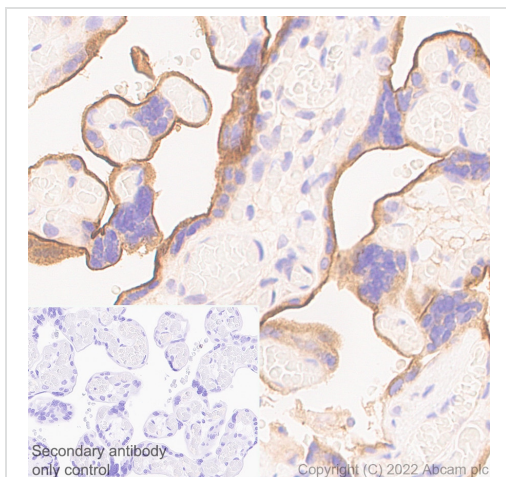


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EPCR/CD201 antibody [EPR25647-49] (AB300565)

Immunohistochemical analysis of paraffin-embedded human colon cancer tissue labeling EPCR/CD201 with ab300565 at 1/2000 dilution (0.524 µg/mL) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection kit). Positive staining on human colon cancer (PMID: 12110501). The section was incubated with ab300565 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of primary antibody, followed by a ready to use secondary antibody LeicaDS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

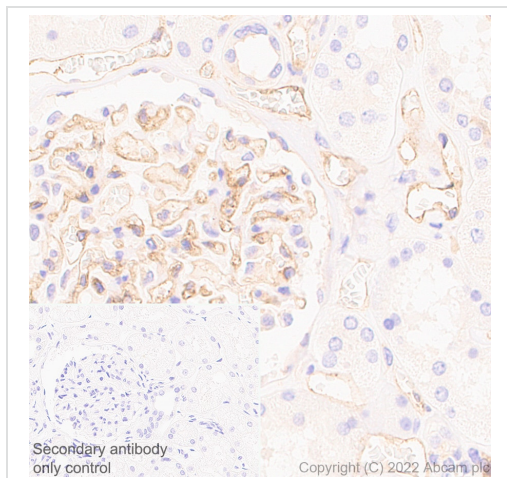


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EPCR/CD201 antibody [EPR25647-49] (AB300565)

Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling EPCR/CD201 with ab300565 at 1/2000 dilution (0.524 µg/mL) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection kit). Positive staining on human placenta (PMID:32003123). The section was incubated with ab300565 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of primary antibody, followed by a ready to use secondary antibody LeicaDS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EPCR/CD201 antibody [EPR25647-49] (AB300565)

Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling EPCR/CD201 with ab300565 at 1/2000 dilution (0.524 µg/mL) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection kit). Positive staining on endothelial cells of human kidney (PMID:26990852). The section was incubated with ab300565 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of primary antibody, followed by a ready to use secondary antibody LeicaDS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-EPCR/CD201 antibody [EPR25647-49] (AB300565)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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