

## Product datasheet

### Anti-CD177 antibody [EPR22813-205] ab255296

Recombinant RabMAb

7 Images

#### Overview

<b>Product name</b>	Anti-CD177 antibody [EPR22813-205]
<b>Description</b>	Rabbit monoclonal [EPR22813-205] to CD177
<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> Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: Human bone marrow. Human placenta and spleen tissue.
<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: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR22813-205
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab255296 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. Predicted molecular weight: 46 kDa.
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

### Tissue specificity

Highly expressed in normal bone marrow and weakly expressed in fetal liver. Expressed on neutrophils. Expressed in granulocytes of patients with polycythemia vera (PV) and with essential thrombocythemia (ET).

### Sequence similarities

Contains 2 UPAR/Ly6 domains.

### Post-translational modifications

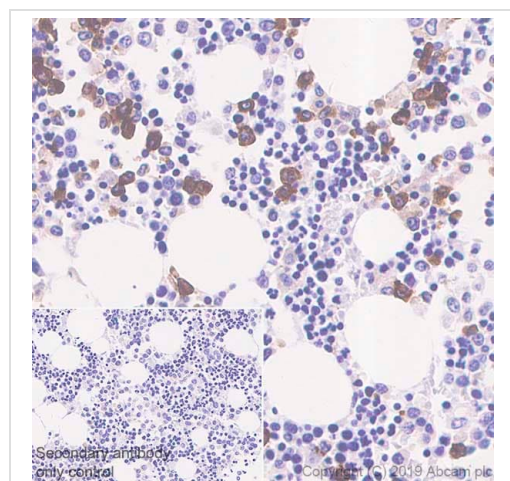
N-glycosylated.

A soluble form may also be produced by proteolytic cleavage at the cell surface (shedding).

### Cellular localization

Cell membrane.

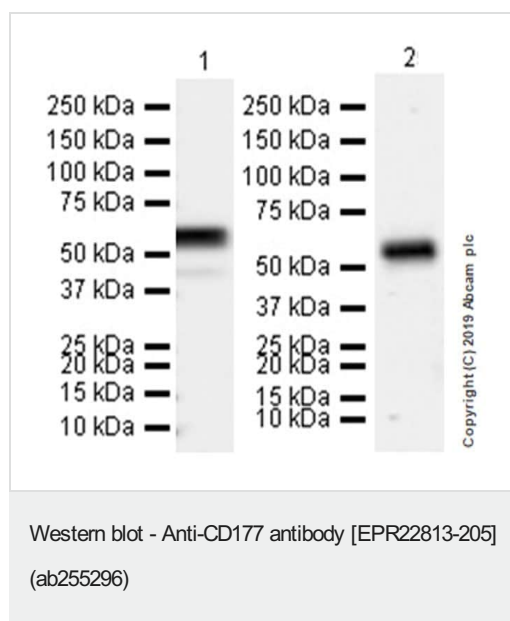
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD177 antibody [EPR22813-205] (ab255296)

Immunohistochemical analysis of paraffin-embedded human bone marrow labeling CD177 with ab255296 at 1/2000 dilution (0.252 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human bone marrow (PMID: 22434870). The section was incubated with ab255296 for 10 mins at RT. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument. Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).



**All lanes :** Anti-CD177 antibody [EPR22813-205] (ab255296) at 1/1000 dilution

**Lane 1 :** Human lung lysate

**Lane 2 :** Human spleen lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

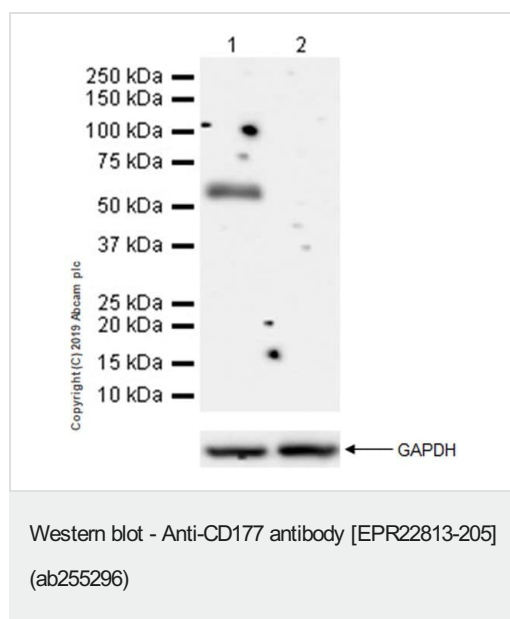
**All lanes :** VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

**Predicted band size:** 46 kDa

CD177 is a glycoprotein. The molecular weight observed is consistent with what has been described in the literature (PMID: 17580308).

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1: 26 secs; Lane 2: 3 mins.



**All lanes :** Anti-CD177 antibody [EPR22813-205] (ab255296) at 1/1000 dilution

**Lane 1 :** Human liver lysate

**Lane 2 :** U-937 (human histiocytic lymphoma monocyte) whole cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

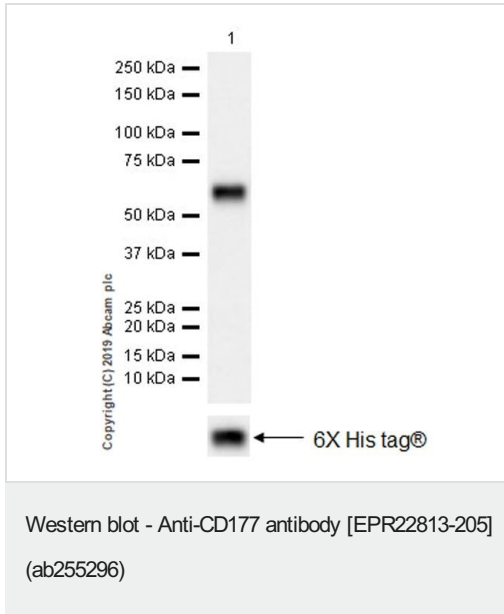
**All lanes :** VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

**Predicted band size:** 46 kDa

**Exposure time:** 3 minutes

CD177 is a glycoprotein. The molecular weight observed is consistent with what has been described in the literature (PMID: 17580308). **Negative control:** U-937 (PMID: 17580308).

Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-CD177 antibody [EPR22813-205] (ab255296) at 1/5000 dilution + Recombinant his-tagged human CD177 protein (aa22-407), 20 ng

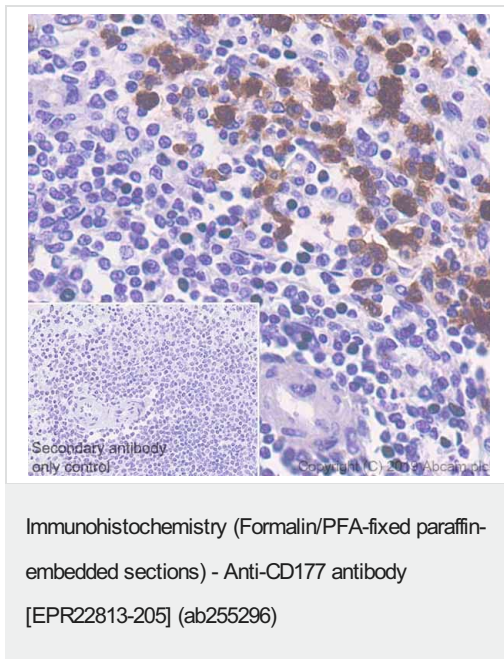
### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 46 kDa

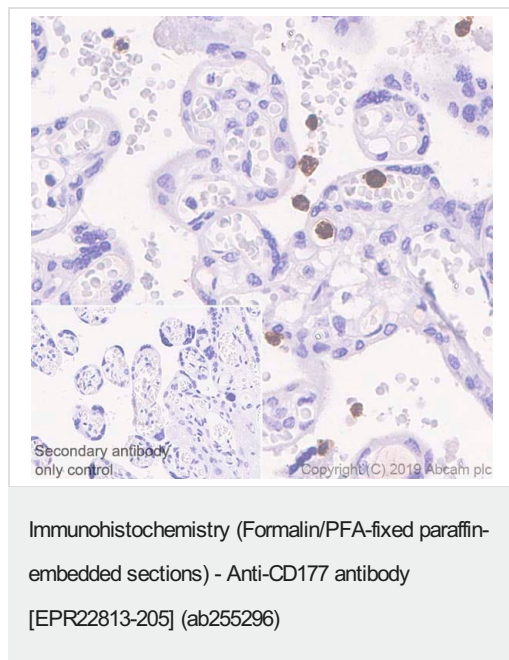
**Exposure time:** 59 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling CD177 with ab255296 at 1/2000 dilution (0.252 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on neutrophils in human spleen (PMID: 24562309) is observed. The section was incubated with ab255296 for 10 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).



Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling CD177 with ab255296 at 1/2000 dilution (0.252 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on neutrophils in human placenta. The section was incubated with ab255296 for 10 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

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-CD177 antibody [EPR22813-205] (ab255296)

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

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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