


Anti-CD34 antibody [EP373Y] ab81289

リコンビナント **RabMAb**

★★★★☆ **55 Abreviews** **499 References** 画像数 15

製品の概要

製品名	Anti-CD34 antibody [EP373Y]
製品の詳細	Rabbit monoclonal [EP373Y] to CD34
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, ICC/IF, IP, IHC-Fr, Flow Cyt (Intra)
種交差性	交差種: Mouse, Rat, Human 交差が予測される動物種: Sheep, Dog, Pig, African bush elephant 
免疫原	Synthetic peptide within Human CD34 aa 350 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P28906
ポジティブ・コントロール	Flow Cyt (intra): TF-1 cells. WB: TF-1 cell lysate. IHC-P: Human kidney tissue; Mouse normal brain, prostate and kidney tissues; Rat kidney tissue. ICC/IF: HUVEC cells; Human embryonic stem cell-derived endothelial cells. IHC-Fr: Mouse and rat lung tissue. Rat kidney. IP: TF-1 cell lysate.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
解離定数 (K _D 値)	K _D = 1.15 x 10 ⁻¹⁰ M





[Learn more about K_D](#)

バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP373Y
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab81289の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★☆ (2)	1/10000. Detects a band of approximately 120 kDa (predicted molecular weight: 41 kDa). ab81289 is not suitable for rat and mouse species in WB application.
IHC-P	★★★★☆ (32)	1/2500 - 1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols .
ICC/IF	★★★★☆ (5)	1/100 - 1/250.
IP		1/30.
IHC-Fr	★★★★★ (7)	1/50.
Flow Cyt (Intra)		1/50.

ターゲット情報

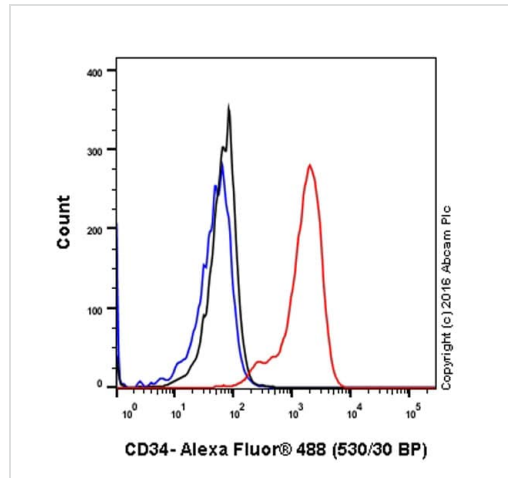
機能	Possible adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. Could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. Presents carbohydrate ligands to selectins.
組織特異性	Selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues.
配列類似性	Belongs to the CD34 family.
発生段階	On early hematopoietic progenitor cells.
翻訳後修飾	Highly glycosylated.

Phosphorylated on serine residues by PKC.

細胞内局在

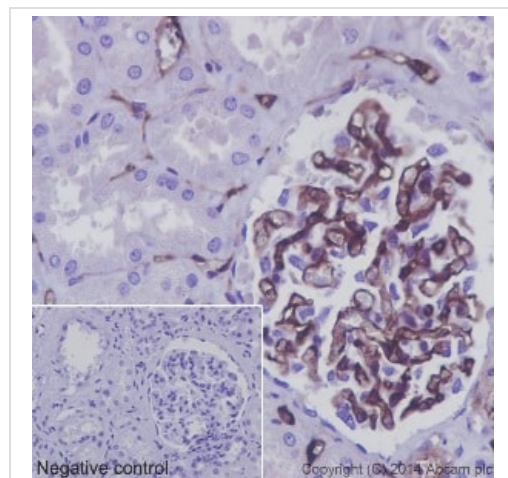
Membrane.

画像



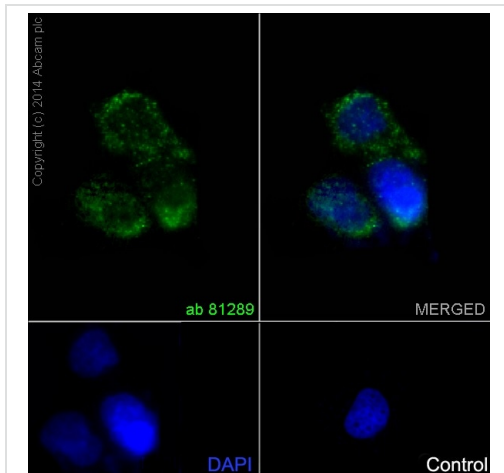
Intracellular Flow Cytometry analysis of TF-1 (human erythroleukemia) cells labeling CD34 with purified ab81289 at 1/50 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.

Flow Cytometry (Intracellular) - Anti-CD34 antibody [EP373Y] (ab81289)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling CD34 with purified ab81289 at 1/2500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) was used as the secondary antibody at 1/500. Negative control using PBS instead of primary antibody. Counter stained with Hematoxylin.

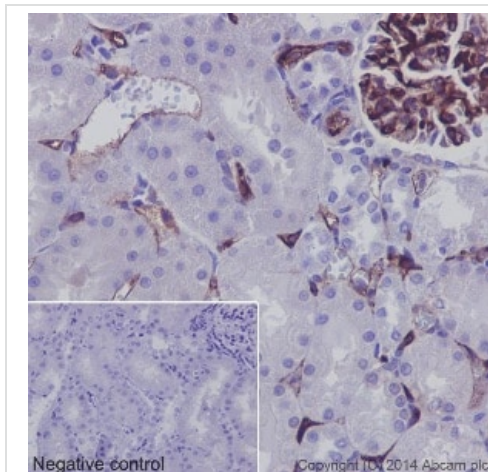
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] (ab81289)



Immunocytochemistry/ Immunofluorescence - Anti-CD34 antibody [EP373Y] (ab81289)

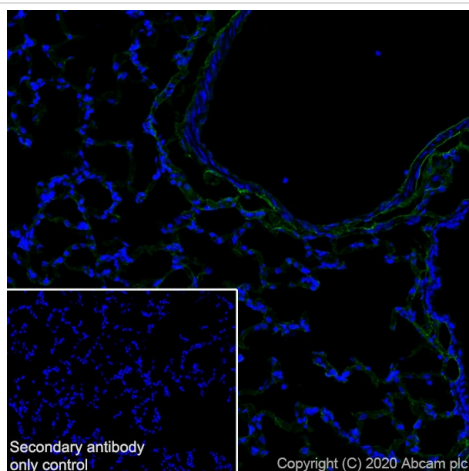
Immunocytochemistry/Immunofluorescence analysis of HUVEC (Human umbilical vein endothelial cell line) cells labelling CD34 with purified ab81289 at 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (**ab150077**) (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counter stain.

Control: Secondary antibody only, **ab150120**, an Alexa Fluor® 488-conjugated goat anti-mouse IgG (1/500).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] (ab81289)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat kidney tissue labelling CD34 with purified ab81289 at 1/2500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) was used as the secondary antibody at 1/500. Negative control using PBS instead of primary antibody. Counter stained with Hematoxylin.

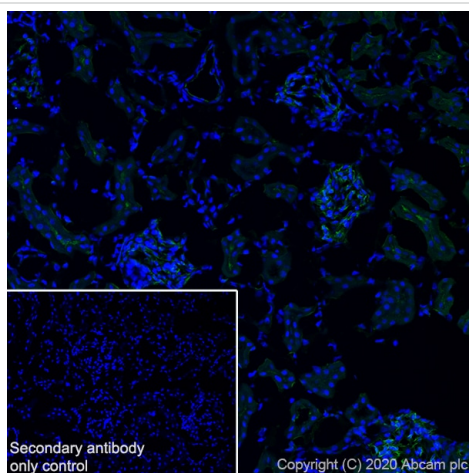


Immunohistochemistry (Frozen sections) - Anti-CD34 antibody [EP373Y] (ab81289)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat lung tissue labeling CD34 with ab81289 at 1/50 (11.04 µg/mL) dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Positive staining on rat lung. is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

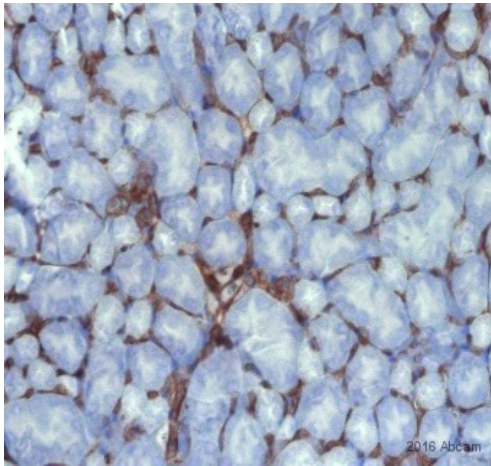


Immunohistochemistry (Frozen sections) - Anti-CD34 antibody [EP373Y] (ab81289)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat kidney tissue labeling CD34 with ab81289 at 1/50 (11.04 µg/mL) dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Positive staining on rat kidney. is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1000 dilution.

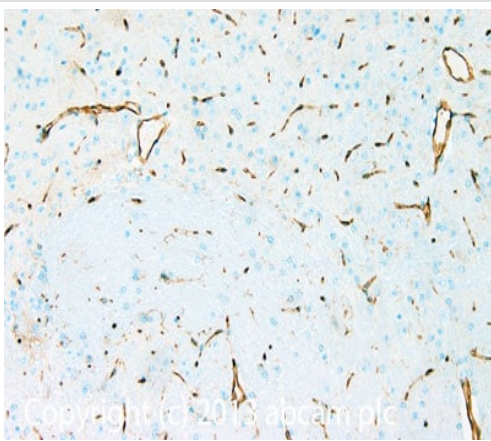
Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] (ab81289)

This image is courtesy of an Abreview submitted by Mr. Rudolf Jung.

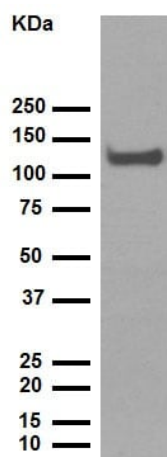
Paraformaldehyde-fixed, paraffin-embedded mouse kidney tissue stained for CD34 using ab81289 at 1/200 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] (ab81289)

IHC image of CD34 staining in Mouse normal brain formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with unpurified ab81289, 1/250 dilution, for 15 mins at room temperature. A Goat anti-Rabbit biotinylated secondary antibody was used to detect the primary, and visualized using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-CD34 antibody [EP373Y]
(ab81289)

purified at 1/10000 dilution + TF-1 (Human bone marrow erythroleukemia cells) at 20 µg

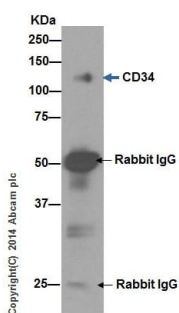
Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 41 kDa

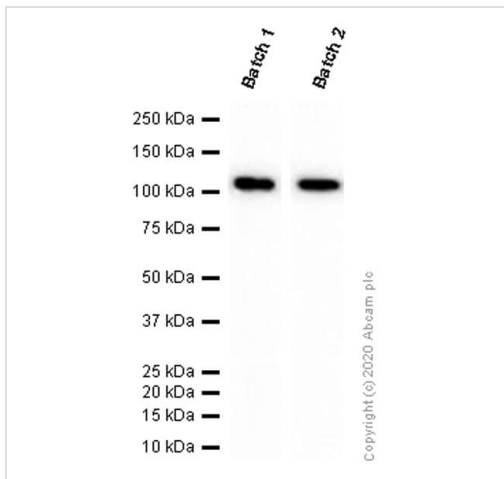
Observed band size: 120 kDa

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



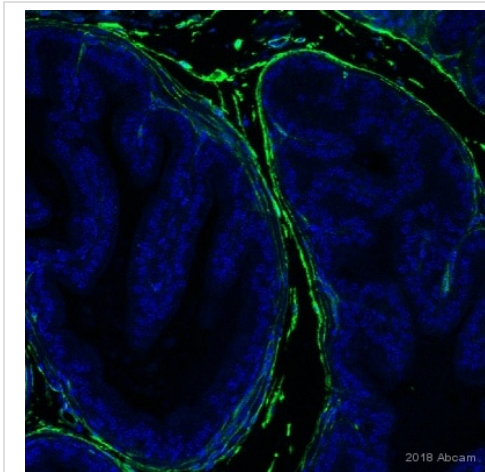
Immunoprecipitation - Anti-CD34 antibody [EP373Y]
(ab81289)

CD34 was immunoprecipitated from TF-1 (Human bone marrow erythroleukemia cells) cells using purified ab81289 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab81289. Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated was used as secondary antibody at 1/1000 dilution. Blocking and dilution buffer and concentration: 5% NFDM/TBST



Western blot - Anti-CD34 antibody [EP373Y]
(ab81289)

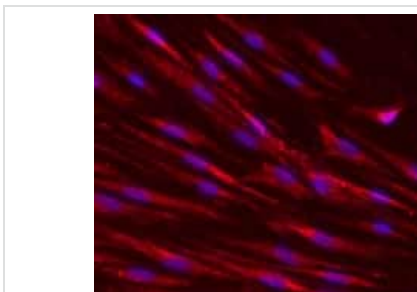
Different batches of ab81289 were tested on TF-1 (Human Erythroleukemia erythroblast) lysate at 0.02 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 120 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y]
(ab81289)

This image is courtesy of an anonymous Abreview.

Paraformaldehyde-fixed, paraffin-embedded mouse prostate tissue stained for CD34 using ab81289 at 1/150 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-CD34 antibody [EP373Y] (ab81289)

Image from Földes Get al, PLoS One. 2010 May 5;5(5):e10501, Fig 3.

Immunocytochemistry/Immunofluorescence analysis of human embryonic stem cell-derived endothelial cells labeling CD34 with unpurified ab81289 at 1/200. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.2% aTriton X-100. An Alexa Fluor® 647-conjugated secondary antibody was used at a 1/400 dilution. DAPI (blue) was used as the nuclear counter stain.

OI-RD Scanning - Anti-CD34 antibody [EP373Y]
(ab81289)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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recombinant antibody?



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reproducible results



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scalable supply**
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technology



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first experiment**
Confirmed
specificity



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Anti-CD34 antibody [EP373Y] (ab81289)

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