

### Anti-CD34 antibody [QBEND-10] ab8536

★★★★★ **5 Abreviews** **62 References** **8 图像**

#### 概述

产品名称	Anti-CD34抗体[QBEND-10]
描述	小鼠单克隆抗体[QBEND-10] to CD34
宿主	Mouse
特异性	This antibody recognizes the CD34 antigen, some cross reactions with vascular associated adventitia and some basement membranes. Ultrastructure studies, using an indirect immuno-gold technique on ultra thin sections of human umbilical artery, have revealed that this antigen is associated to a degree with the basoluminal surfaces of endothelium and shows a slight reaction with an intracytoplasmic vesicular compartment. Predominant staining is on the endothelial cell membrane. QBEND-10 immunoprecipitates a glycoprotein with a relative MW 110kD expressed on haematopoietic cells and on the established myeloid leukaemic cell line KG1A.
经测试应用	<b>适用于:</b> Flow Cyt, IHC-P, WB
种属反应性	<b>与反应:</b> Human <b>不与反应:</b> Rat, Sheep, Cow, Dog
免疫原	Tissue, cells or virus corresponding to Human CD34. Human endothelial vesicles Database link: <b>P28906</b>
表位	This antibody's target epitope is distinct from those of other anti-CD34 reactive mabs as demonstrated by its lack of sensitivity to neuraminidase treatment, and fluorescence staining profiles during flow cytometry analysis of target cell populations.
阳性对照	tonsil, bone marrow
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.  If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

存储溶液	Preservative: 0.02% Sodium azide Constituent: PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	QBEND-10
骨髓瘤	unknown
同种型	IgG1
轻链类型	unknown

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab8536于以下的经测试应用

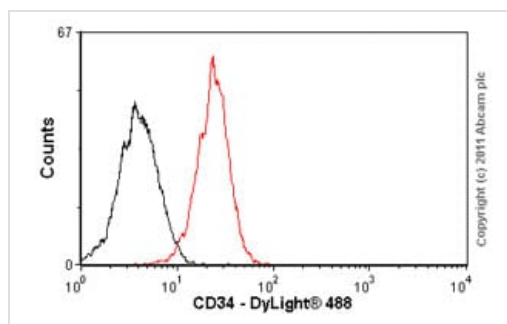
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt		1/50. Mmethanol fixed cells. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-P	★★★★★ (4)	1/50 - 1/100. Do not perform antigen retrieval.
WB		Use at an assay dependent concentration. Predicted molecular weight: 40 kDa.

靶标

功能	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.
组织特异性	Selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues.
序列相似性	Belongs to the CD34 family.
发展阶段	On early hematopoietic progenitor cells.
翻译后修饰	Highly glycosylated. Phosphorylated on serine residues by PKC.
细胞定位	Membrane.

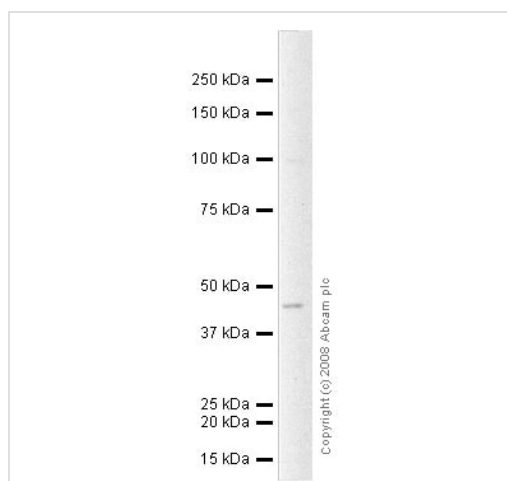
图片



Flow Cytometry - Anti-CD34 antibody [QBEND-10]  
(ab8536)

Overlay histogram showing Jurkat cells stained with ab8536 (red line). The cells were fixed with methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab8536, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a significantly decreased signal in Jurkat cells fixed with 4% paraformaldehyde (10 min) used under the same conditions.

Please note that Abcam do not have data for use of this antibody on non-fixed cells. We welcome any customer feedback.



Western blot - Anti-CD34 antibody [QBEND-10]  
(ab8536)

Anti-CD34 antibody [QBEND-10] (ab8536) at 5 µg/ml + Caco 2 (Human colonic carcinoma cell line) Whole Cell Lysate at 10 µg

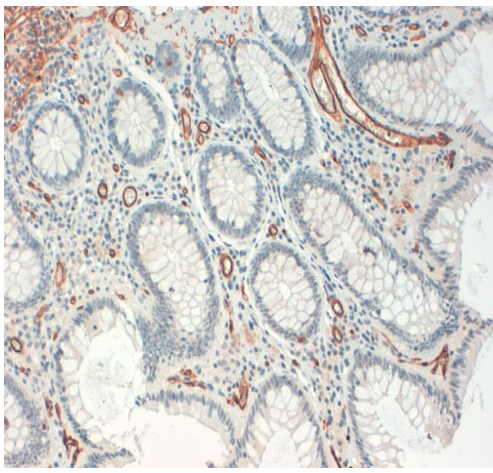
#### Secondary

Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

**Predicted band size:** 40 kDa

**Observed band size:** 40 kDa

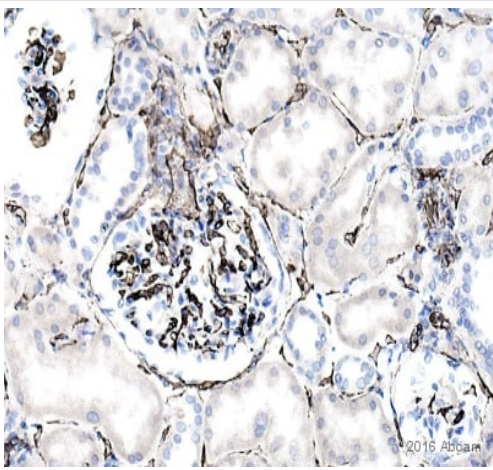
**Additional bands at:** 100 kDa (possible glycosylated form)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [QBEND-10] (ab8536)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon tissue sections labelling CD34 with ab8536 at 1µg/ml (1:1000). Blood vessels show positive staining.

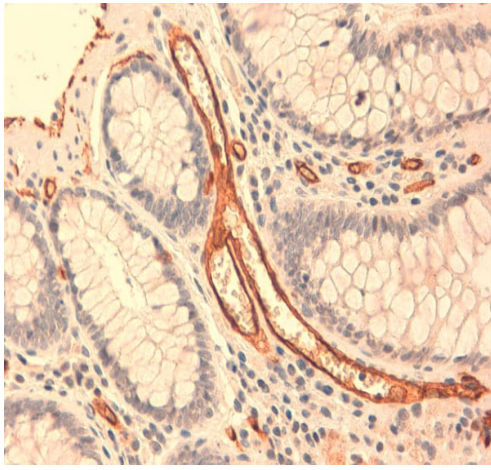
Detection system polymeric HRP. HIER with Pressure cooker pH6.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [QBEND-10] (ab8536)

This image is courtesy of an Abreview by Carl Hobbs.

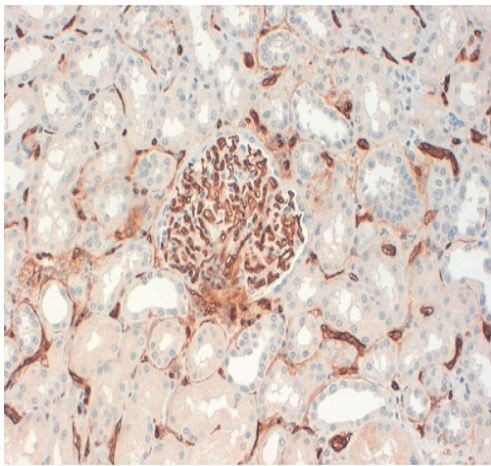
ab8536 staining CD34 in human kidney tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 2% BSA for 10 minutes at 21°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/2000 in blocking buffer) for 16 hours at 21°C. A Biotin-conjugated goat anti-mouse IgG polyclonal (1/300) was used as the secondary antibody.



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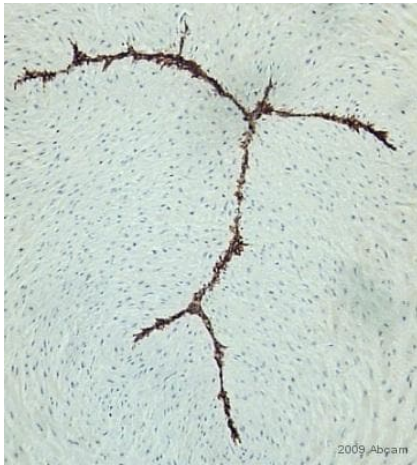
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue sections labeling CD34 with ab8536 at 1ug/ml.

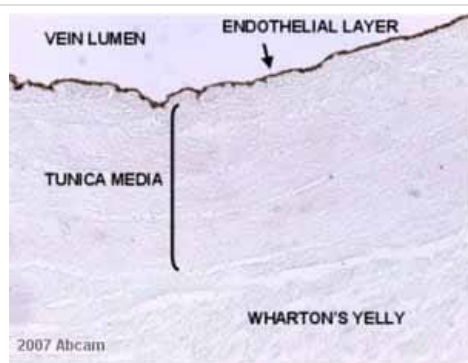
Detection system polymeric HRP.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [QBEND-10] (ab8536)

This image is courtesy of an abreview submitted by Manoj Kumar Valluru.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human umbilical cord labeling CD34 with ab8536 at 1/1000 dilution. Tissue was fixed in formaldehyde and permeabilized with PBS. Heat mediated antigen retrieval was performed using a citrate pH 6 buffer. Tissue was blocked with 5% serum for 1 hour at room temperature. A biotinylated polyclonal goat anti-mouse secondary antibody was used at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [QBEND-10] (ab8536)

This image is courtesy of an Abreview submitted by Dr Jose Javier Martin De Llano

ab8536 at 1/500 staining human umbilical cord tissue sections by IHC-P. The tissue was paraformaldehyde fixed and blocked with horse serum before incubation with the antibody for 16 hours. A biotinylated goat anti-mouse IgG was used as the secondary.

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