

## Product datasheet

# Anti-Endothelium antibody [EN4] ab8087

### 6 References

#### Overview

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<b>Product name</b>	Anti-Endothelium antibody [EN4]
<b>Description</b>	Mouse monoclonal [EN4] to Endothelium
<b>Host species</b>	Mouse
<b>Specificity</b>	This antibody stains all human blood vessels including brain microvessels. Both large and small vessels are equally reactive. The EN4 antigen is preserved in endothelial cells in culture unlike the PAL-E antigen ( <a href="#">ab8086</a> ) which is lost. It stains strongly murine fibroblasts transfected with the human CD31 gene. On surface-iodinated Jurkat T cells it recognizes the 130 kD CD31 antigen. EN4 also binds to guinea-pig and cat endothelium, but not to rabbit, bovine, sheep, dog, rat or mice endothelial cells. No other structures in the skin, heart, kidney, tonsils or spleen are stained with this antibody.
<b>Species reactivity</b>	<b>Reacts with:</b> Guinea pig, Cat, Human <b>Does not react with:</b> Mouse, Sheep, Rabbit, Cow, Dog

#### General notes

The antibody is useful for immunohistological staining of endothelia. Lymphatic endothelium is stained (unlike the PAL-E antibody). Kaposi's sarcoma and other vascular tumors of endothelial cell origin are also stained.

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

#### Properties

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<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.
<b>Storage buffer</b>	pH: 7.3 Preservative: 0.02% Sodium azide Constituent: 0.1% BSA

<b>Purity</b>	Tissue culture supernatant
<b>Primary antibody notes</b>	The antibody is useful for immunohistological staining of endothelia. Lymphatic endothelium is stained (unlike the PAL-E antibody). Kaposi's sarcoma and other vascular tumors of endothelial cell origin are also stained.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EN4
<b>Isotype</b>	IgG1

## Target

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<b>Relevance</b>	The endothelium is located at the interface between the blood and the vessel wall. The cells are in close contact and form a slick layer that prevents blood cell interaction with the vessel wall as blood moves through the vessel lumen. The endothelium consists of simple squamous epithelium that lines the lumen of all blood vessels. It plays a critical role in the mechanics of blood flow, the regulation of coagulation, leukocyte adhesion, and vascular smooth muscle cell growth, and also serves as a barrier to the transvascular diffusion of liquids and solutes. For years the endothelium was thought of as an inert single layer of cells that passively allow the passage of water and other small molecules across the vessel wall. However, this dynamic tissue performs many other active functions, such as the secretion and modification of vasoactive substances and the contraction and relaxation of vascular smooth muscle.
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