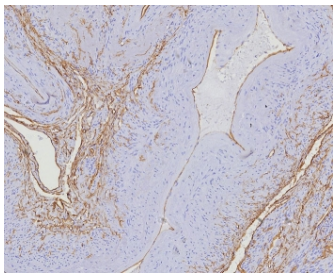
CD34 Antibody / Vascular Marker Antibody [clone HPCA1/8353R] (V4802)

Catalog No.	Formulation	Size
V4802-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4802-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4802SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

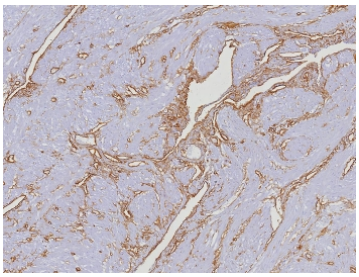
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	HPCA1/8353R
Purity	Protein A/G affinity
UniProt	P28906
Localization	Cell Surface
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CD34 Antibody / Vascular Marker Antibody is available for research use only.



CD34 Antibody Uterus IHC HPCA1/8353R. Immunohistochemistry analysis of CD34 expression in FFPE human uterus tissue using a Vascular Marker Antibody, clone HPCA1/8353R, demonstrates membranous HRP-DAB brown staining in vascular endothelial cells outlining branching vessels and interconnected microvascular networks within the stromal and myometrial compartments, while surrounding smooth muscle and stromal cells remain largely negative. The staining pattern supports clear visualization of vascular structures and mapping of uterine vascular architecture. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



CD34 Antibody Uterus IHC HPCA1/8353R. Immunohistochemistry analysis of CD34 expression in FFPE human uterus tissue using a Vascular Marker Antibody, clone HPCA1/8353R, reveals membranous HRP-DAB brown staining in endothelial cells forming elongated and branching vascular structures throughout the stromal and myometrial regions, while adjacent smooth muscle and stromal cells remain largely negative. The staining pattern highlights interconnected vessel networks and supports detailed visualization of uterine vascular organization. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Cluster of Differentiation 34 (CD34) is a transmembrane sialomucin glycoprotein encoded by the CD34 gene and is widely expressed on vascular endothelial cells as well as hematopoietic progenitor cells. It plays an important role in cell adhesion and vascular organization and is a defining marker of blood vessel structures within tissues. CD34 Antibody / Vascular Marker Antibody is widely used to identify and map vascular networks, enabling visualization of blood vessels and their distribution across diverse biological contexts.

CD34 antibody, also known as endothelial marker antibody or angiogenesis marker antibody, produces distinct membranous staining in endothelial cells that line blood vessels. This staining outlines capillaries, branching microvessels, and larger vascular channels, allowing clear visualization of vascular architecture within tissue sections. The continuous and well-defined signal enables identification of vessel boundaries and supports interpretation of vascular organization.

This CD34 Antibody / Vascular Marker Antibody is uniquely positioned for broad vascular identification, where the goal is to detect and map vascular structures without focusing on specific biological processes such as angiogenesis or quantitative analysis. CD34-positive vessels can be visualized across a wide range of tissues, providing a comprehensive view of vascular distribution and organization.

In normal tissues, CD34 staining reveals organized vascular networks with consistent vessel morphology, including evenly distributed capillary beds and structured vascular channels. These patterns reflect stable vascular organization and provide a baseline for comparison with altered vascular states in disease or experimental models.

In pathological conditions, vascular architecture may become irregular, with changes in vessel density, morphology, and spatial distribution. CD34 staining allows these structural alterations to be visualized, supporting analysis of vascular remodeling and tissue organization. Although this page does not focus on specific disease processes, the ability to detect these changes highlights the versatility of CD34 as a vascular marker.

CD34 expression may also be observed in hematopoietic progenitor cells depending on tissue context, but its most consistent and structurally informative localization remains within vascular endothelial cells. Interpretation of staining patterns therefore relies on recognition of vessel morphology and tissue architecture.

Overall, CD34 Antibody / Vascular Marker Antibody HPCA1/8353R provides robust detection of blood vessels, enabling clear visualization of vascular networks and supporting analysis of tissue architecture and vascular organization across a wide range of biological systems.

This antibody is part of our CD34 antibody collection, supporting research into stem cell biology, endothelial markers, and tumor angiogenesis.

Application Notes

Optimal dilution of the CD34 Antibody / Vascular Marker Antibody should be determined by the researcher.

Immunogen

Recombinant full-length human CD34 protein was used as the immunogen for the CD34 antibody.

Storage

Aliquot the CD34 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

CD34 vascular marker antibody, CD34 blood vessel marker antibody, CD34 vascular structure antibody, CD34 vessel marker antibody, CD34 vascular identification antibody

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com