

## Product Datasheet

### CD34 Antibody (orb606873)

<b>Description</b>	This antibody recognizes a transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Its expression is a hallmark for identifying pluripotent hematopoietic stem or progenitor cells. Its expression is gradually lost as lineage committed progenitors differentiate. CD34 is a marker of choice for staining blasts in acute myeloid leukemia. In addition, it is expressed by soft tissue tumors, such as solitary fibrous tumor and gastrointestinal stromal tumor. CD34 expression is also found in vascular endothelium. Additionally, proliferating endothelial cells overexpress this molecule than the non-proliferating endothelial cells. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but shows low specificity.
<b>Species/Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Tested Applications</b>	FACS, IHC-P
<b>Immunogen</b>	Recombinant full-length human protein was used as the immunogen for the recombinant CD34 antibody.
<b>Preservatives</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
<b>Storage</b>	Store the recombinant CD34 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).
<b>Note</b>	For research use only
<b>Application notes</b>	Optimal dilution of the recombinant CD34 antibody should be determined by the researcher.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
<b>Formula</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide

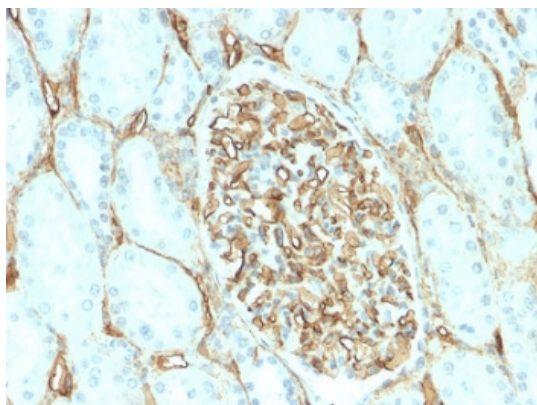
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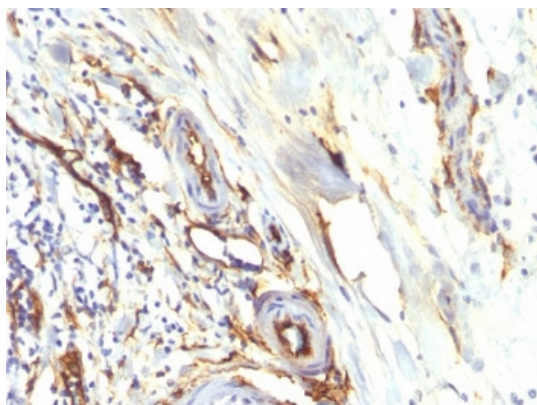
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<b>Isotype</b>	Rabbit IgG, kappa
<b>Clonality</b>	Recombinant
<b>Clone Number</b>	HPCA1/2598R
<b>Purity</b>	Protein A affinity chromatography
<b>Uniprot ID</b>	<b>P28906</b>
<b>Hazard Information</b>	This recombinant CD34 antibody is available for research use only.
<b>Dilution Range</b>	Flow cytometry: 0.5-1ug/million cells, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
<b>Expiration Date</b>	12 months from date of receipt.



IHC testing of FFPE human renal cell carcinoma with recombinant CD34 antibody (clone HPCA1/2598R). Required HIER: boil tissue sections in 10 mM Tris with 1 mM EDTA, pH9, for 10-20 min followed by cooling at RT for 20 min.



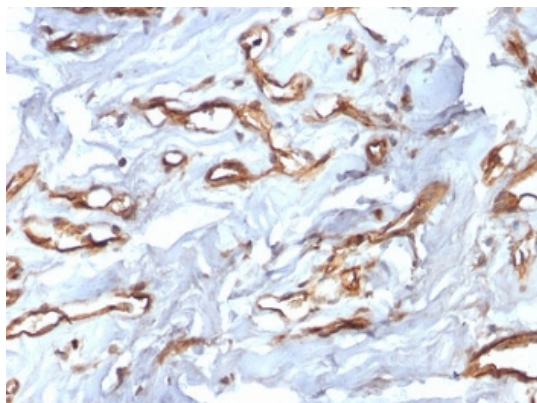
IHC testing of FFPE human colon carcinoma with recombinant CD34 antibody (clone HPCA1/2598R). Required HIER: boil tissue sections in 10 mM Tris with 1 mM EDTA, pH9, for 10-20 min followed by cooling at RT for 20 min.

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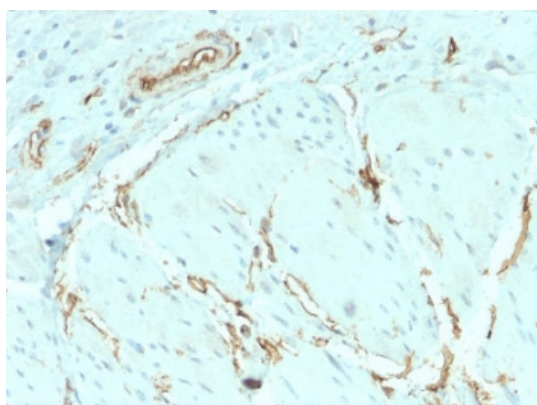
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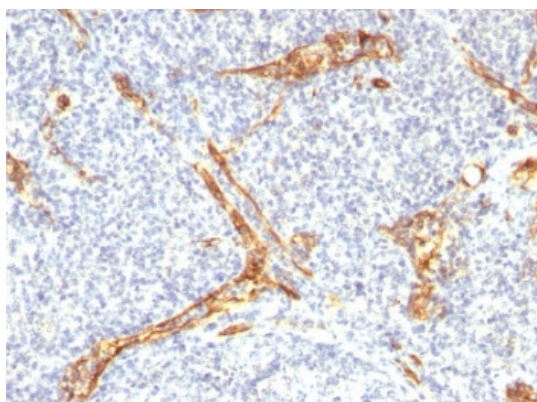
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IHC testing of FFPE human angiosarcoma with recombinant CD34 antibody (clone HPCA1/2598R). Required HIER: boil tissue sections in 10 mM Tris with 1 mM EDTA, pH9, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human breast carcinoma with recombinant CD34 antibody (clone HPCA1/2598R). Required HIER: boil tissue sections in 10 mM Tris with 1 mM EDTA, pH9, for 10-20 min followed by cooling at RT for 20 min.



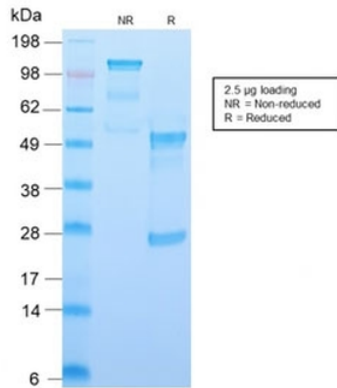
IHC testing of FFPE human tonsil with recombinant CD34 antibody (clone HPCA1/2598R). Required HIER: boil tissue sections in 10 mM Tris with 1 mM EDTA, pH9, for 10-20 min followed by cooling at RT for 20 min.

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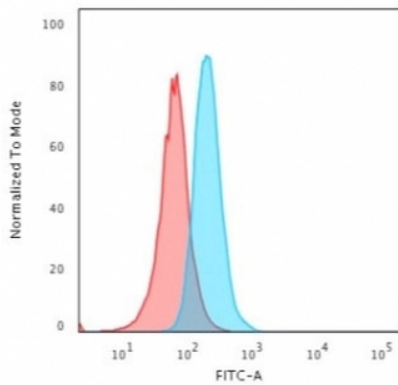
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SDS-PAGE analysis of purified, BSA-free recombinant CD34 antibody (clone HPCA1/2598R) as confirmation of integrity and purity.



Flow cytometry testing of human Jurkat cells with CD34 antibody (clone HPCA1/2598R); Red = isotype control, Blue = CD34 antibody.

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