

# Product Datasheet

## CD34 Antibody (QBEnd/10 + HPCA1/763)

### NBP2-44567-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-44567-0.1mg**

CD34 Antibody (QBEnd/10 + HPCA1/763)

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	QBEnd/10 + HPCA1/763
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Lambda/IgG1 Lambda
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA
<b>Product Description</b>	
<b>Description</b>	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0 mg/ml. (NBP2-47909)  Antibody with azide - store at 2 to 8C.
<b>Host</b>	Mouse
<b>Gene ID</b>	947
<b>Gene Symbol</b>	CD34
<b>Species</b>	Human
<b>Marker</b>	Hematopoietic Stem Cell & Endothelial Marker
<b>Specificity/Sensitivity</b>	This monoclonal antibody recognizes a single chain, 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, CD34 is expressed by soft tissue tumors, such as solitary fibrous tumor and gastrointestinal stromal tumor. Its expression is also found in vascular endothelium. Additionally, it appears that proliferating endothelial cells express this molecule more than the non-proliferating endothelial cells. Anti-CD34 labels 85% of angiosarcoma and Kaposi sarcoma, but with a lower specificity.
<b>Immunogen</b>	Detergent solubilized vesicular suspension prepared from human term placenta (QBEnd/10); Recombinant full-length human CD34 protein (CD34/763) (Uniprot: P28906)
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Proximity Ligation Assay, Immunofluorescence
<b>Recommended Dilutions</b>	Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.25-0.5 ug/ml, Proximity Ligation Assay, Immunofluorescence 0.5 - 1.0 ug/ml

**Application Notes**

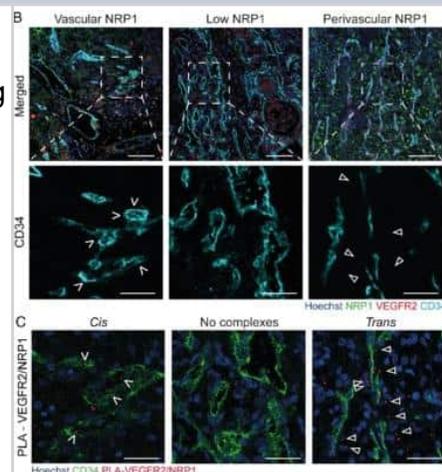
Use in Proximity Ligation Assay reported in scientific literature (PMID: 31880322).

Immunohistochemistry (Formalin-fixed): 0.25-0.5ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes.

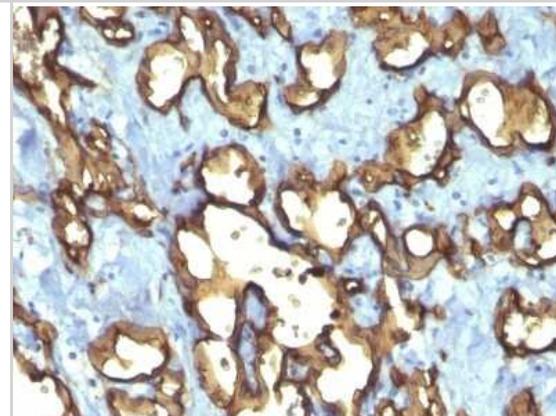
Optimal dilution for a specific application should be determined.

**Images**

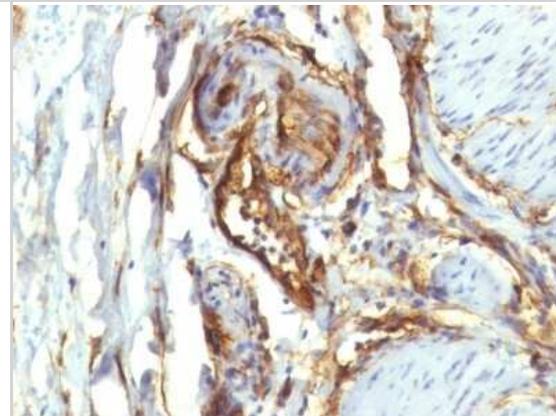
Immunohistochemistry: CD34 Antibody (QBEnd/10 + HPCA1/763) [NBP2-44567] - Representative images of RCC patient biopsies immunostained for VEGFR2, CD34, and NRP1 and counterstained using Hoechst33342. Left column shows examples of NRP1 expressed by endothelial cells; middle column shows a tumor sample with low NRP1 expression. Right column shows NRP1 positive perivascular tumor cells. Blood vessels were stained for CD34 and nuclei counterstained using Hoechst33342. Left column shows cis complexes, localized within the endothelium. Middle column shows a tumor lacking VEGFR2/NRP1 complexes. Right column shows trans complexes, located adjacent to the endothelium (white arrowheads). Image collected and cropped by Citeab from the following publication (Perivascular Neuropilin-1 expression is an independent marker of improved survival in renal cell carcinoma. *J Pathol* (2020) licensed under a CC-BY license.



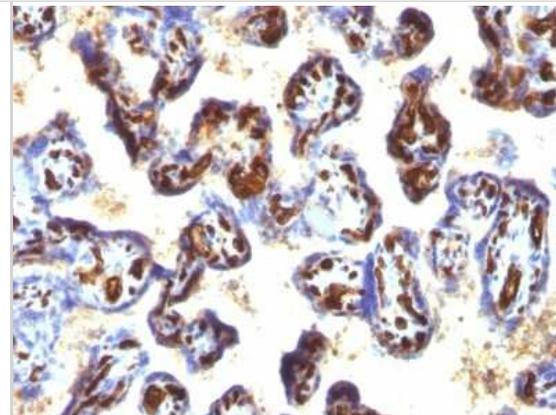
Immunohistochemistry-Paraffin: CD34 Antibody (QBEnd/10 + HPCA1/763) [NBP2-44567] - Human Angiosarcoma stained with CD34 Monoclonal Antibody (QBEnd/10 + HPCA1/763)



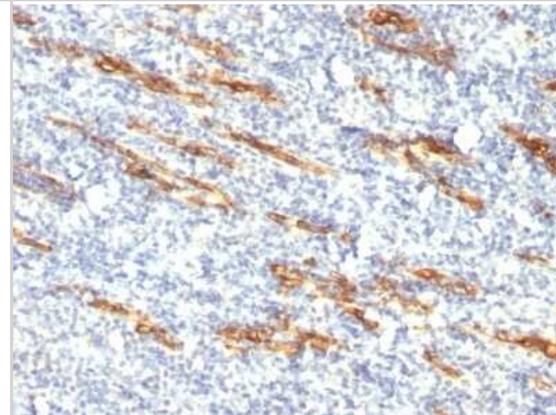
Immunohistochemistry-Paraffin: CD34 Antibody (QBEnd/10 + HPCA1/763) [NBP2-44567] - Human Colon Carcinoma stained with CD34 Monoclonal Antibody (QBEnd/10 + HPCA1/763)



Immunohistochemistry-Paraffin: CD34 Antibody (QBEnd/10 + HPCA1/763) [NBP2-44567] - Human Placenta stained with CD34 Monoclonal Antibody (QBEnd/10 + HPCA1/763)



Immunohistochemistry-Paraffin: CD34 Antibody (QBEnd/10 + HPCA1/763) [NBP2-44567] - Human Tonsil stained with CD34 Monoclonal Antibody (QBEnd/10 + HPCA1/763)



## Publications

Abdallah MG, Buchanan-Vega JA, Lee KJ, et al. Perivascular Neuropilin-1 expression is an independent marker of improved survival in renal cell carcinoma J Pathol. [PMID: 31880322] (PLA, Human)



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### **Products Related to NBP2-44567-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-22751	Recombinant Human CD34 His Protein
210-TA-005	TNF-alpha [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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