

Product Datasheet

CD34 Antibody (QBEnd/10 + HPCA1/763) NBP2-44567-0.1mg

Unit Size: 0.1 mg

Store at 4C.

www.novusbio.com



technical@novusbio.com

Publications: 1

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-44567

Updated 10/23/2024 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP2-44567



NBP2-44567-0.1mg

CD34 Antibody (QBEnd/10 + HPCA1/763)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	QBEnd/10 + HPCA1/763
Preservative	0.05% Sodium Azide
Isotype	IgG1 Lambda/IgG1 Lambda
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

Product Description	
Description	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.
Host	Mouse
Gene ID	947
Gene Symbol	CD34
Species	Human
Marker	Hematopoietic Stem Cell & Endothelial Marker
Specificity/Sensitivity	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.
Immunogen	Detergent solubilized vesicular suspension prepared from human term placenta (QBEnd/10); Recombinant full-length human CD34 protein (CD34/763) (Uniprot: P28906)

Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Proximity Ligation Assay, Immunofluorescence
Recommended Dilutions	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

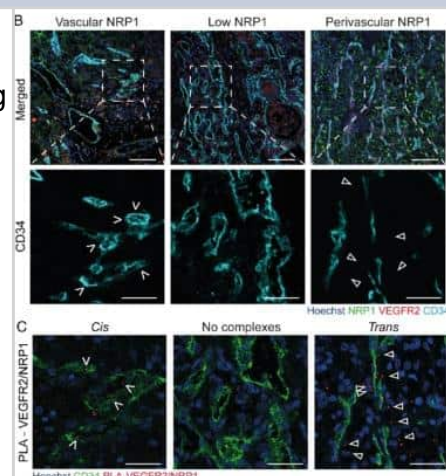


Application Notes

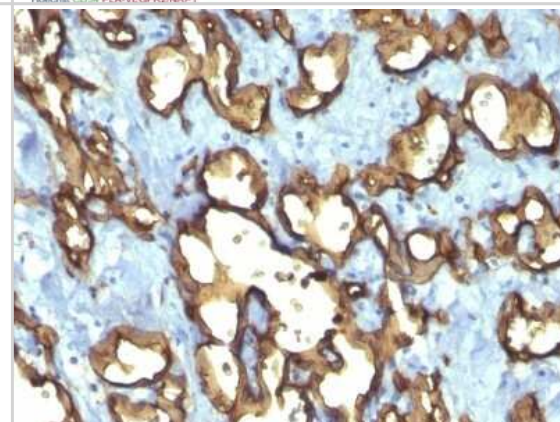
Use in Proximity Ligation Assay reported in scientific literature (PMID: 31880322).
 Immunohistochemistry (Formalin-fixed): 0.25-0.5ug/ml for 30 minutes at RT.
 Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes.
 Optimal dilution for a specific application should be determined.

Images

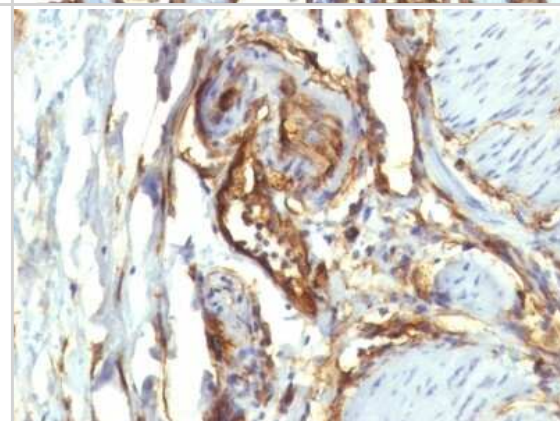
Immunohistochemistry: CD34 Antibody (QBEnd/10 + HPCA1/763) [NBP2-44567] - Representative images of RCC patient biopsies immunostained for VEGFR2, CD34, and NRP1 and counterstained using Hoechst33342. Left column shows examples of NRP1 expressed by endothelial cells; middle column shows a tumor sample 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.



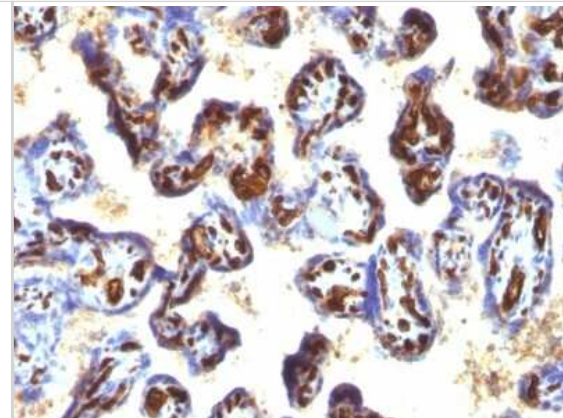
Immunohistochemistry-Paraffin: CD34 Antibody (QBEnd/10 + HPCA1/763) [NBP2-44567] - Human Angiosarcoma stained with CD34 Monoclonal Antibody (QBEnd/10 + HPCA1/763)



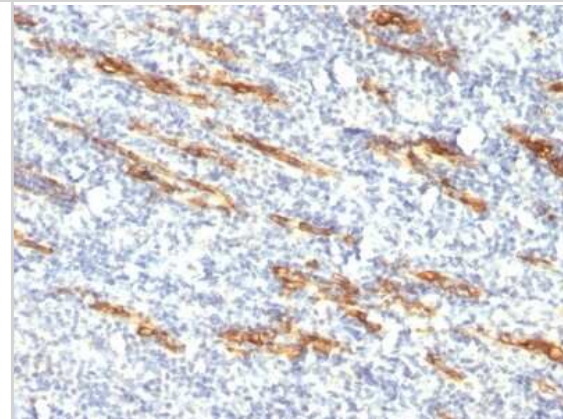
Immunohistochemistry-Paraffin: CD34 Antibody (QBEnd/10 + HPCA1/763) [NBP2-44567] - Human Colon Carcinoma stained with CD34 Monoclonal Antibody (QBEnd/10 + HPCA1/763)



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)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-44567-0.1mg

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]

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-44567

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

