

Product Datasheet

CD34 Antibody (QBEnd/10 + HPCA1/763) [DyLight 650] NBP2-44567C

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-44567C

CD34 Antibody (QBEnd/10 + HPCA1/763) [DyLight 650]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	QBEnd/10 + HPCA1/763
Preservative	0.05% Sodium Azide
Isotype	IgG1 Lambda/IgG1 Lambda
Conjugate	DyLight 650
Purity	Protein A or G purified
Buffer	50mM Sodium Borate

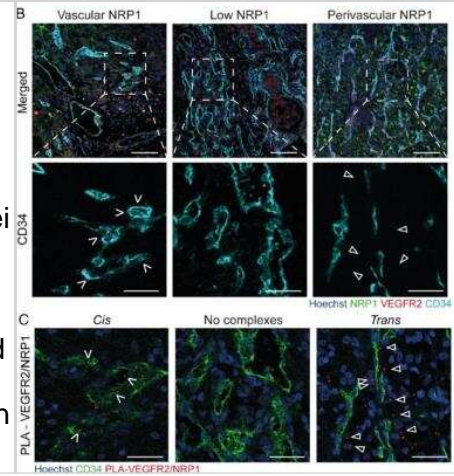
Product Description	
Host	Mouse
Gene ID	947
Gene Symbol	CD34
Species	Human
Marker	Hematopoietic Stem Cell & Endothelial Marker
Specificity/Sensitivity	This monoclonal antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Its expression 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)
Notes	Dylight (R) is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries. This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.

Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Proximity Ligation Assay, Immunofluorescence
Recommended Dilutions	Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Proximity Ligation Assay, Immunofluorescence
Application Notes	Use in Proximity Ligation Assay reported in scientific literature (PMID: 31880322). Optimal dilution of this antibody should be experimentally determined.



Images

Immunohistochemistry: CD34 Antibody (QBEnd/10 + HPCA1/763) [DyLight 650] [NBP2-44567C] - 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.



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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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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