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DATA SHEET

Mouse Anti-CD34 [QBEnd/10]: MC0066, MC0066RTU7

Intended Use: For Research Use Only

Description: CD34 (Cluster of differentiation 34) is a single-pass type I transmembrane glycoprotein which primary functions as a cell to cell adhesion factor. As an adhesion factor, CD34 is expressed during stem/progenitor stage of lymphohematopoietic development and possibly mediates the stem cell attachment to the bone marrow, ECM or stromal cells. CD34 is expressed on hematopoietic stem/progenitor cells, endothelial cells, fibroblasts and other stromal components. CD34 is an important marker for quantifying and purifying hematopoietic progenitor/stem cells. It is useful in identification of tumors with endothelial or lymphoid differentiation. In addition, CD34 aids in detection of gastrointestinal stromal tumors.

Specifications:

Clone:	QBEnd/10
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, cynomolgus monkey, Rhesus monkey
Immunogen:	Detergent solubilized vesicular suspension prepared from human term placenta
Localization:	Membrane
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt., IF

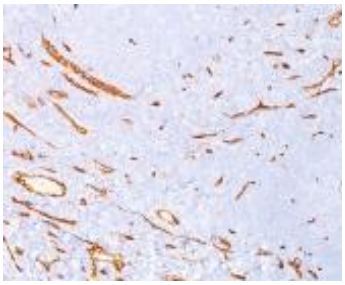
Package:

Description	Catalog No.	Size
CD34 Concentrated	MC0066	1 ml
CD34 Prediluted	MC0066RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Tonsil, placenta, marrow, angiosarcoma
Concentrated Dilution:	100-300
Pretreatment:	Citrate pH6.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD34 using DAB

References:

1. c-Myc-mediated repression of miR-15-16 in hypoxia is induced by increased HIF-2a and promotes tumor angiogenesis and metastasis by upregulating FGF2. Xue G, et al. Oncogene N/A:N/A, 2014.
2. Origin of the vasculature supporting growth of primary patient tumor xenografts. Hylander BL, et al. J Transl Med 11:110, 2013.
3. High-density lipoprotein endocytosis in endothelial cells. Fruhwürth S, et al. World J Biol Chem 4:131-40, 2013.
4. Differential expression of vascular endothelial growth factor in glucocorticoid-related osteonecrosis of the femoral head. Varoga D, et al. Clin Orthop Relat Res 467:3273-82, 2009.
5. Endosialin (CD248) is a marker of tumor-associated pericytes in high-grade glioma. Simonavicius N, et al. Mod Pathol 21:308-15, 2008.

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