

Monoclonal Antibody to Human CD34

Catalog No.:	SM1095P
Quantity:	1 ml
Concentration:	0.1 mg/ml
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	QBEND10
Immunogen:	Human endothelial vesicles
Applications:	Flow Cytometry: use 10 µl of neat antibody to label 1x10 ⁶ cells in 100 µl. Immunohistochemistry on frozen and paraffin embedded sections (1:50 - 1:100). This product does not require antigen retrieval using heat treatment or protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase. Recommended positive control: Tonsil, bone marrow. Immunoprecipitation and Western Blot. Other applications not tested. Optimal dilutions should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the CD34 antigen, some cross reactions with vascular associated adventitia and some basement membranes. Ultrastructure studies, using an indirect immunogold technique on ultra thin sections of human umbilical artery, have revealed that this antigen is associated to a degree with the basoluminal surfaces of endothelium and shows a slight reaction with an intracytoplasmic vesicular compartment. Predominant staining is on the endothelial cell membrane. QBEND-10 immunoprecipitates a glycoprotein of Mr 110kD expressed on haemopoietic cells and on the established myeloid leukemic cell line KG1a. QBEND-10 recognises the Class II epitope on CD34. This clone shows no cross reactivity with sheep, cow, dog or rat. Clone is reported to cross react with Rhesus monkey (2). Antibody reactivity and working conditions may vary between species.
Storage:	Store the antibody at 4-8°C or at -20°C for longer. This product should be stored undiluted. Avoid repeated freezing and thawing. Shelf live: one year from despatch.
General Readings:	1. Fina L, Molgaard HV, Robertson D, Bradley NJ, Monaghan P, Delia D, et al. Expression of the CD34 gene in vascular endothelial cells. Blood. 1990 Jun 15;75(12):2417-26. PubMed PMID: 1693532. 2. Sopper, S. et al. (1997). Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of Thesus mon