

Monoclonal Mouse Antibody to Human CD34

Alternate names:	CD34, Hematopoietic progenitor cell antigen CD34
Catalog No.:	SM1095
Quantity:	1 ml
Host / Isotype:	Mouse / IgG1
Clone:	QBEND10
Immunogen:	Human endothelial vesicles
Applications:	Flow Cytometry: use 5 µl of neat antibody to label 1x10 ⁶ cells. Immunoprecipitation. Immunohistochemistry on frozen and paraffin embedded sections: 1:10. This product does not require protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections. Recommended positive control tissue: Tonsil, bone marrow Westernblot. 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:	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 leukaemic cell line KG1a. QBEND-10 recognises the Class II epitope on CD34. Clone QBEND-10 has been reported as being suitable for use in Western blotting. This antibody shows no cross reactivity with sheep, cow, dog or rat. Clone QBEND-10 is reported to cross react with Rhesus monkey (2).
Storage:	Store the antibody at 4-8°C or at -20°C for longer. Avoid repeated freezing and thawing. Shelf live: one year from despatch.
General Readings:	<ol style="list-style-type: none">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 Rhesus mon