

Mouse anti-CD34, clone QBEND-10 (Monoclonal)

Clone no. QBEND/10

MONOSAN

Product name	Mouse anti-CD34, clone QBEND-10 (Monoclonal)
Host	Mouse
Applications	IHC-fr,IHC-P,WB,FC,IP,IF,EM
Species reactivity	human,rhesus monkey,cynomolgus monkey
Conjugate	Purified
Immunogen	Human endothelial cell membrane vesicles.
Isotype	IgG1
Clonality	Monoclonal
Clone number	QBEND/10
Size	0.2 mg
Concentration	1.0 mg/ml
Format	-
Storage buffer	PBS with 0.09% sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

Mouse anti Human CD34 antibody, clone QBEND/10 recognizes the human CD34 antigen, also known as Hematopoietic progenitor cell antigen CD34. Human CD34 is 385 amino acid polypeptide containing a 31 residue signal peptide, cleaved to yield the ~110kDa mature form of CD34, a sialomucin single pass transmembrane glycoprotein. CD34 is expressed by stem cells (Kaufman et al. 2001) and small vessel endothelium (Ramani et al. 1990) Human CD34 exists as two isoforms, the full length form described here and a truncated isoform lacking the carboxy-terminal of the intracellular domain and containing some alternative sequence in the remaining intracellular region. Antibody binding epitopes on human CD34 have been classified according to their resistance to enzymatic degradation and grouped together using this and competitive binding assays (Lanza et al. 1999). Mouse anti Human CD34 antibody, clone QBEND/10 has been classified as binding to the class II epitope, resistant to neuraminidase treatment but sensitive to both glycoprotease and chymopapain digestion. Mouse anti Human CD34 antibody, clone QBEND/10 binds to a different epitope to Mouse anti Human CD34, clone 581 (MCA1578) which binds to the class III epitope resistant to all three enzymatic treatments (Nishio et al. 1996 In Leukocyte Typing VI). Clone QBEND 10 is expected to bind to both isoforms of human CD34 as its binding epitope has been mapped to the extracellular domain between amino acids 43 and 49 by peptide microarray analysis (Jones et al. 1996, in Leukocyte Typ

References

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