CD34 monoclonal antibody, clone QBEnd-10 (FITC)

Catalog # MAB6489 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native CD34.
Immunogen	Native purified CD34 from human endothelial vesicles.
Host	Mouse
Theoretical MW (kDa)	110-115
Reactivity	Human, Non-Human Primates
Specificity	This antibody reacts with Class II epitope on CD34 (Mucosialin), a 110-115 KDa monomeric transmembrane phosphoglycoprotein expressed on hematopoietic progenitors cells and on the most pluripotential stem cells; it is gradually lost on progenitor cells. This antibody has been also used as an endothelial marker.
Form	Liquid
Conjugation	FITC
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

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Gene Info — CD34

Entrez GeneID	947
Gene Name	CD34
Gene Alias	-
Gene Description	CD34 molecule
Omim ID	142230
Gene Ontology	Hyperlink
Gene Summary	CD34 is a monomeric cell surface antigen with a molecular mass of approximately 110 kD that is selectively expressed on human hematopoietic progenitor cells.[supplied by OMIM
Other Designations	CD34 antigen|OTTHUMP00000034733|OTTHUMP00000034734|hematopoietic progenitor cell antigen CD34

Publication Reference

- Certain anti-CD34 monoclonal antibodies induce homotypic adhesion of leukemic cell lines in a CD18-dependent and a CD18-independent way.

  Traore Y, Hirn J.

  European Journal of Immunology 1994 Oct; 24(10):2304.

  Application: Flow Cyt, Func, Human, KG-I cells

- QBEND/10 (anti-CD34 antibody) in external root sheath cells and follicular tumors.

  Poblet E, Jimenez-Acosta F, Rocamora A.

  Journal of Cutaneous Pathology 1994 Jun; 21(3):224.

  Application: IHC-P, Human, Human follicular tumors

- Rapid positive selection of CD34+ cells using magnetic microspheres coated with monoclonal antibody QBEND/10 linked via a cleavable disulphide bond.

  Grimsley PG, Amos TA, Gordon MY, Greaves MF.

  Leukemia 1993 Jun; 7(6):898.

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- Differential sensitivity of CD34 epitopes to cleavage by Pasteurella haemolytica glycoprotease: implications for purification of CD34-positive progenitor cells.

  Sutherland DR, Marsh JC, Davidson J, Baker MA, Keating A, Mellors A.

  Exp Hematol 1992 Jun; 20(5):590.

- Heterogeneity of vascular endothelial cells with relevance to diagnosis of vascular tumours.

  Kuzu I, Bicknell R, Harris AL, Jones M, Gatter KC, Mason DY.

  Journal of Clinical Pathology 1992 Feb; 45(2):143.

Pathway

- Cell adhesion molecules (CAMs)
- Hematopoietic cell lineage

Disease

- Carcinoma
- Disease Progression
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hepatitis C
- Liver Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Tobacco Use Disorder
- Viremia

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