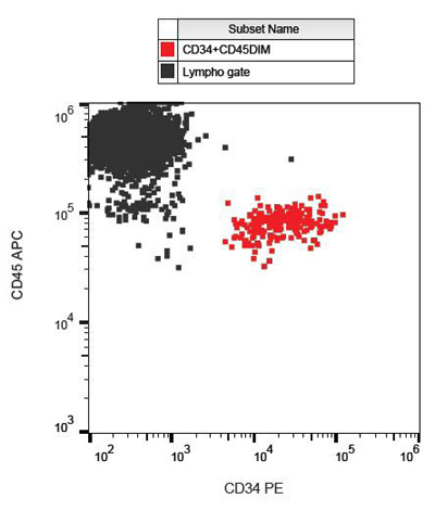
CD34 monoclonal antibody, clone QBEnd-10 (PE)

Catalog # MAB6483 Size 100 Reactions

Applications



Flow Cytometry

Flow cytometric analysis (surface staining) of CD34 in human peripheral blood.

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 transm embrane phosphoglycoprotein expressed on hematopoietic progenitorscells and on the most pluripo tential stem cells; it is gradually lost on progenitor cells. This antibody has been also used as an endo thelial marker.
Form	Liquid
Conjugation	PE

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Preparation Method	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Isotype	IgG1
Recommend Usage	Flow Cytometry (The reagent is designed for analysis of human blood cells using 20 uL reagent/100 uL of whole blood or 10^6 cells in a suspension. The content of a vial (2 mL) is sufficient for 100 tests.) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (15 mM 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

  Flow cytometric analysis (surface staining) of CD34 in human peripheral blood.

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

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- Simian immunodeficiency virus infection and flow cytometric characterization of Japanese macaque (Macaca fuscata) hematopoietic cells.

  Tsukamoto T, Nakamura K, Okada S.

  Journal of Medical Primatology 2020 Apr; 49(2):116.

  Application: Flow Cyt, Monkey, Bone marrow cells, PBMCs

- Streamlined production of genetically modified T cells with activation, transduction and expansion in closed-system G-Rex bioreactors.

  Gagliardi C, Khalil M, Foster AE.

  Cytotherapy 2019 Dec; 21(12):1246.

  Application: Flow Cyt, Human, PBMCs

- Onset of Appearance and Potential Significance of Telocytes in the Developing Fetal Lung.

  Awad M, Gaber W, Ibrahim D.

  Microscopy and Microanalysis 2019 Oct; 25(5):1246.

  Application: IHC-P, Rabbit, Lung

- Two-Dimensional Regulation of CAR-T Cell Therapy with Orthogonal Switches.

  Duong MT, Collinson-Pautz MR, Morschl E, Lu A, Szymanski SP, Zhang M, Brandt ME, Chang WC, Sharp KL, Toler SM, Slawin KM, Foster AE, Spencer DM, Bayle JH.

  Molecular Therapy Oncolytics 2018 Dec; 12:124.

  Application: Flow Cyt, Human, PBMCs

- Constitutively active MyD88/CD40 costimulation enhances expansion and efficacy of chimeric antigen receptor T cells targeting hematological malignancies.

  Collinson-Pautz MR, Chang WC, Lu A, Khalil M, Crisostomo JW, Lin PY, Mahendravada A, Shinners NP, Brandt ME, Zhang M, Duong M, Bayle JH, Slawin KM, Spencer DM, Foster AE.

  Leukemia 2019 Feb; [Epub].

  Application: Flow Cyt, Human, Gene-modified T cells

- Regulated Expansion and Survival of Chimeric Antigen Receptor-Modified T Cells Using Small Molecule-Dependent Inducible MyD88/CD40.

  Aaron E Foster, Aruna Mahendravada, Nicholas P Shinners, Wei-Chun Chang, Jeannette Crisostomo, An Lu, Mariam Khalil, Eva Morschl, Joanne L Shaw, Sunandan Saha, MyLinh T Duong, Matthew R Collinson-Pautz, David L Torres, Tania Rodriguez, Tsvetelina Pentcheva-Hoang, J Henri Bayle, Kevin M Slawin, David M Spencer

  Mol Ther 2017 Sep; 25(9):2176-2188.

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- 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.

- 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

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- Head and Neck Neoplasms
- Hepatitis C
- Liver Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Tobacco Use Disorder
- Viremia

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