

Monoclonal Antibody to CD31 / PECAM1 - FITC

Alternate names:	EndoCAM, GPIIA', PECAM-1, Platelet endothelial cell adhesion molecule
Catalog No.:	SM1530F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	<p>CD31 is a 130kD glycoprotein expressed by platelets, endothelial cells, granulocytes and some lymphocytes.</p> <p>CD31, also known as platelet endothelial cell adhesion molecule 1 (PECAM1), is a type I integral membrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed on the surface of endothelial cells, and concentrated at the junction between them. It is also weakly expressed on many peripheral lymphoid cells and platelets. CD31 has been used to measure angiogenesis in association with tumor recurrence. Other studies have also indicated that CD31 and CD34 can be used as markers for myeloid progenitor cells and recognize different subsets of myeloid leukemia infiltrates (granular sarcomas).</p>
Uniprot ID:	P16284
NCBI:	9606
Host / Isotype:	Mouse / IgG1
Clone:	WM59
Format:	<p>State: Liquid purified IgG fraction.</p> <p>Purification: Affinity Chromatography on Protein G.</p> <p>Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer.</p> <p>Label: FITC – Fluorescein Isothiocyanate Isomer 1</p>
Applications:	<p>Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells in 100 µl.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody recognises the CD31 cell surface antigen.</p> <p>Species: Human, Cynomolgus monkey, Monkey, Rhesus Monkey.</p> <p>Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.</p> <p>This product is photosensitive and should be protected from light.</p> <p>Shelf life: one year from despatch.</p>
General References:	<ol style="list-style-type: none">1. Carbanas. C., Sanchez-Madrid, F., et al. (1989) Characterisation of a novel myeloid antigen regulated during differentiation of monocytic cells. Eur J. Immunol. 19: 1373-1378.2. Yoshino, N. et al. (2000) Upgrading of flow cytometric analysis for absolute counts,

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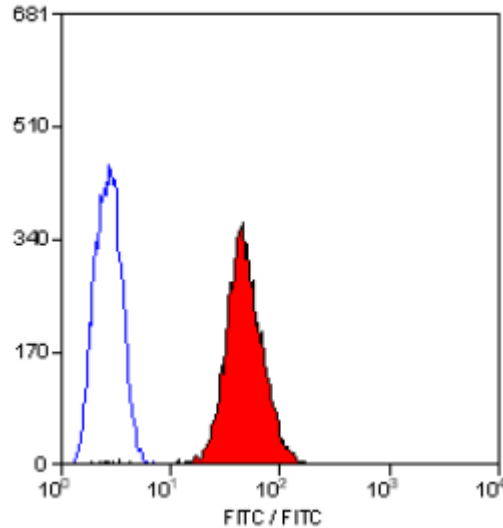
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cytokines and other antigenic molecules of Cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp. Anim.* 49 (2): 97-110.

3. Stockinger, H. et al. (1990) Molecular characterization and functional analysis of the leukocyte surface protein CD31. *J. Immunol.* 145: 38893897.

4. DeLisser, H.M. et al. (1994) Molecular and functional aspects of PECAM1/CD31. *Immunol. Today* 15: 490495.

Pictures:



Staining of human peripheral blood platelets with Mouse Anti Human CD31 antibody -FITC (SM1530F).

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