

MONOCLONAL ANTIBODY

CD31

Cat. No.	Form	Quantity	Presentation
1431	FITC	100 tests	Liquid 2 mL

- Clone** 5 6E
- Isotype** IgG1 (mouse)
- Immunogen** Muscle tissue extract (rhabdomyosarcoma)
- Hybridoma** NS1 myeloma x Balb/C spleen cells
- Specificity** The CD31 antigen, also called Platelet Endothelial Cell Adhesion Molecule-1 (PECAM-1) and platelet gpIIa', is a single-chain membrane glycoprotein of 140 kDa, having Ig-like extracellular domains and an overall structure of cell adhesion molecules (1, 2).  
It is present on platelets, endothelial cells, monocytes, granulocytes, B cells and a T cell subset (CD45RA<sup>+</sup> population of CD4<sup>+</sup> cells, 3).  
It is reported to be an endothelial adhesion molecule (1, 2).  
5.6E specifically reacts with CD31 antigen and has been characterized in ref 4
- Applications** Cell adhesion molecule studies  
Useful marker for identification of T cells of suppressor on helper lineage.
- Buffer** 2 mg/mL bovine serum albumin in phosphate-buffered saline containing 0.1% sodium azide.
- Reconstitution and Storage** The conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C until the expiration date stated on the vial label.
- Recommended Procedures** Fluorescent microscopy or flow cytometry:  
20 µL / 5 x 10<sup>5</sup> platelets / test.
- References**
- 1) DeLisser, H.M., Newman, P.J., Albelda, S.M., "Molecular and functional aspects of PECAM-1/CD31", 1994, *Immunol. Today*, **15**, 490-495.
  - 2) Newman, P.J., Berndt, M.C., Gorski, J., White II, G.C., Lyman, S., Paddock, C., Muller, W.A., "PECAM-1 (CD31) cloning and relation to adhesion molecules of the immunoglobulin gene superfamily", 1990, *Science*, **247**, 1219-1222
  - 3) Torimoto, Y., Rothstein, D.M., Dang, N.H., Schlossman, S.F., Morimoto, C., "CD31, a novel cell surface marker for CD4 cells of suppressor lineage, unaltered by state of activation", 1992, *J. Immunol.*, **148**, 388-396.
  - 4) von dem Borne, A.E.G.K., et al., "P1-Platelet antibodies, the overall results", 1989, in *Leucocyte Typing IV*, White cell differentiation antigens, Knapp, W., et al., Eds., Oxford University Press, p. 951-966.

February 17, 1997

MA003

FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES



**IMMUNOTECH**  
A COULTER COMPANY

BP 177 - 13276 Marseille Cedex 9 - France  
Tel (33) 4 91 17 27 00 - Fax (33) 4 91 41 43 58