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DATA SHEET

CD146-PE

(Cat #5050-PE100T)

MOUSE MONOCLONAL ANTIBODY ANTI-HUMAN ENDOTHELIAL CELLS, R-PE CONJUGATE

Clone	F4-35H7 (S-Endo1)
Isotype	IgG1
Partner of fusion	X63Ag8/653
Immunogen	Human umbilical cord vein endothelial cells (HUVEC).
Specificity	Using an indirect immuno-peroxydase assay performed in microtiterplates, S-Endo1 binds to cultured HUVEC but not to platelets (1). Analyzed by an indirect immuno-staining method on bone marrow cells, the S-Endo1-related antigen was absent. Analyzed on blood cells, using flow cytometry, S-Endo1 does not bind to quiescent leukocytes, nor red cells, nor platelets.
Application	Characterization of cells of endothelial origin by flow cytometry. Detection of endothelial cells in whole blood by flow cytometry (1, 2, 3).
Form	R-Phycoerythrin-conjugated purified immunoglobulin in PBS-BSA 0.1%, pH 7.2, liquid, 2 mL.
Size	100 tests, ready for use.
Suggested amount	20 µL/test for 100 µL of sample.
Preservative	Sodium azide < 0.1%.
Storage	The conjugated antibody should be stored in the dark at +2-8°C. Do not freeze.
HLDA Workshop	Leukocyte Typing VI.

References

1 - Cytometric detection of human endothelial cells in whole human blood using S-Endo1 monoclonal antibody. F. George et al., J. Immunol. Methods, 139 (1991) 65-75
2 - Rapid isolation of human endothelial cells from whole blood using S-Endo1 monoclonal antibody coupled to immuno-magnetic beads : Demonstration of endothelial injury after Angioplasty. F. George et al. Thrombosis and Haemostasis, 67 (1992) 147-153.
3 - George F et al., Demonstration of Rickettsia conorii-induced endothelial injury in vivo by measuring circulating endothelial cells, thrombomodulin and Von Willebrand Factor in patients with mediterranean spotted fever. Blood, 82 (1993) 2109-2116.