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DATA SHEET

CD105
(Cat #5100-P)

MOUSE MONOCLONAL ANTIBODY ANTI-HUMAN CD105, PURIFIED

Clone	F4-30C5
Isotype	IgG2a
Partner of fusion	X63Ag8/653
Immunogen	Human umbilical cord vein endothelial cells (HUVEC).
Specificity	CD105, also known as endoglin, is a component of the TGF- β receptor complex. It is mainly expressed on endothelial cells. Strong binding to human L-endoglin (full length) transfectants in NIH 3T3 murine fibroblasts has established the specificity of this antibody ⁽¹⁾ .
Reactivity	Flow cytometry quantitation of CD105, using QIFIKIT [®] and unconjugated antibody clone F4-30C5, demonstrates that the antigen is highly expressed on HUVEC (602,000 +/- 223,000 molecules per cell, mean +/- SD) ⁽²⁾ . In Western blotting, 1 band of 180 kDa is detected under unreduced conditions ⁽¹⁾ .
Application	Flow cytometry ⁽¹⁾ ⁽²⁾ , Western blot ⁽¹⁾ , immunomagnetic isolation of human endothelial cells, immunohistochemistry, immunoprecipitation ⁽¹⁾ .
Form	Purified immunoglobulin in PBS-BSA 0.1%, pH 7.2, liquid, 1 mL.
Size	0.1 mg
Suggested amount	Quantitative flow cytometry : follow the package insert of CELLQUANT Calibrator kit (BioCytex ref. 7208). For indirect immunofluorescence : use 10 μ L of antibody per 3.10 ⁵ cells in 100 μ L sample. For other applications : the optimal dilution should be determined by the investigator.
Preservative	Sodium azide < 0.1%.
Storage	As delivered at 2-8°C until expiration date. After opening, aliquote contents and freeze at -20°C. Avoid repeated freezing and thawing.
HLDA Workshop	Leucocyte Typing VI.
References	1. Kishimoto T. <i>et al.</i> , Leucocyte Typing VI, Garland Publishing. 1997, 703-709. 2. Mutin M. <i>et al.</i> , Tissue antigens. 1997, 50(5), 449-458.