

**MONOCLONAL ANTIBODY CD105 (Endoglin)**

Cat. No.	Form	Quantity	Presentation
1226	Purified	0.2 mg	Freeze-dried

<b>Clone</b>	1G2
<b>Isotype</b>	IgG3 (mouse)
<b>Immunogen</b>	CML blast crisis cells.
<b>Hybridoma</b>	Myeloma X63 Ag8.653 x Balb/c spleen cells.
<b>Specificity</b>	<p>The molecular weight of the recognized antigen is 170 - 180 kDa.</p> <p>The CD105 antigen, also named endoglin, is a homodimeric, RGD-containing adhesion molecule.</p> <p>The molecule is a receptor for TGF-<math>\beta</math> type III.</p> <p>1G2 stains endothelial cells from various tissues and syncytiotrophoblasts. Stains intensely on high endothelial venules (HEV), but does not react with peripheral blood cells, this antibody recognizes specifically proerythroblasts from bone marrow.</p>
<b>Applications</b>	<p>Flow cytometry.</p> <p>Erythroid subset identification in bone marrow.</p> <p>Studies have shown that CD105 antibodies can be useful for the characterization of AML and B-lineage ALL.</p> <p>Adhesion endoglin-positive cells are stimulated by anti-endoglin antibody and blocked by RGD tripeptides.</p>
<b>Buffer</b>	1 mg/ml bovine serum albumin in phosphate buffered saline.
<b>Reconstitution and Storage</b>	The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquotting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C.

October 24, 1994

FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES



**IMMUNOTECH**  
 130, av. de Lattre de Tassigny - B.P. 177  
 13276 Marseille Cedex 9 (France)  
 Tel. 91 17 27 00 - Fax. 91 41 43 58

**Recommended  
Procedures**

Flow cytometry

2 µg/5x10<sup>5</sup> cells/test.

**References**

- 1) Bühring, H.-J., Müller, C.A., Letarte, C.A., Gougos, A., Saalmüller, A., Van Agthoven, A.J. and Busch, F.W. "Endoglin is expressed on a subpopulation of immature erythroid cells of normal human bone marrow". 1991, Leukemia, **5**, 841-847.
- 2) Lopez-Casillas et al. 1991, Cell, **67**, 785-795.
- 3) Wang et al. 1991, Cell, **67**, 797-805.
- 4) Gougos & Letarte 1990, J Immunol., **141**, 1925-1933.

This antibody has been assigned at the Vth International Workshop on Human Leucocyte Differentiation Antigens in Boston (1993). Identification number: E002