

Anti-Hu CD105 Purified ENG Monoclonal Antibody

Catalog Number: M02997-1

About ENG

CD105 (endoglin) is a homodimeric transmembrane glycoprotein serving in presence of TGFbetaR-2 as a receptor for TGFbeta-1 and TGFbeta-3. CD105 is highly expressed on endothelial cells and promotes angiogenesis during wound healing, infarcts and in a wide range of tumours and its gene expression is stimulated by hypoxia. CD105 prevents apoptosis in hypoxic endothelial cells and also antagonises the inhibitory effects of TGFbeta-1 on vascular endothelial cell growth and migration. Normal cellular levels of CD105 are required for formation of new blood vessels.

Overview

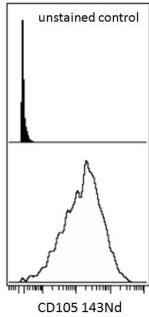
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|----------------------|---|
| Product Name | Anti-Hu CD105 Purified ENG Monoclonal Antibody |
| Reactive Species | Human, Rat |
| Description | Boster Bio Anti-Hu CD105 Purified ENG Monoclonal Antibody (Catalog# M02997-1). Tested in Flow Cytometry, IP, WB, MC (CyTOF) application(s). This antibody reacts with Rat, Human. |
| Application | Flow Cytometry, IP, WB, CyTOF |
| Clonality | Monoclonal MEM-226 |
| Formulation | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Storage Instructions | Store at 2-8°C. Do not freeze. |
| Host | Mouse |
| Uniprot ID | P17813 |

Technical Details

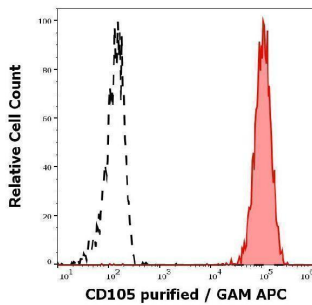
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| Immunogen | Recombinant Vaccinia virus containing the human CD105 cDNA. The antibody MEM-226 reacts with an extracellular epitope of CD105 (Endoglin), a 90 kDa type I homodimerizing membrane glycoprotein expressed on vascular endothelial cells (small and large vessels), activated monocytes and tissue macrophages, stromal cells of certain tissues including bone marrow, pre-B lymphocytes in fetal marrow and erythroid precursors in fetal and adult bone marrow; it is also present on syncytiotrophoblast on placenta throughout pregnancy. |
| Predicted Reactive Species | Primate |
| Cross Reactivity | This antibody does not cross-react with Thy-1.1 alloantigen. |
| Isotype | Mouse IgG2a |
| Form | Liquid |
| Concentration | 1 mg/ml |

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|---------------------|--|
| Purification | Purified by protein-A affinity chromatography. |
| Suggested Dilutions | Flow cytometry: 1-5 ug/ml. Western blotting: Non-reducing conditions. |

Anti-Hu CD105 Purified ENG Monoclonal Antibody (M02997-1) Images



Mass cytometry (surface staining) of hTERT cell line with anti-human CD105 (MEM-226) 143Nd. Gated on singlets.



Separation of HUVEC cells stained using anti-human CD105 (MEM-226) purified antibody (concentration in sample 1.67 µg/ml, GAM APC, red-filled) from HUVEC cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).

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