

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

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

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

Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow cytometry: 1-5 ug/ml.</p> <p>Western blotting: Non-reducing conditions.</p>

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

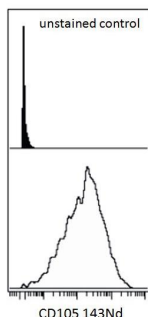


Figure 1. CyTOF validation of ENG using Anti-Hu CD105 Purified ENG Monoclonal Antibody (M02997-1).

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

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