

Anti-Hu CD105 Purified ENG Monoclonal Antibody

Catalog Number: M02997-2

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

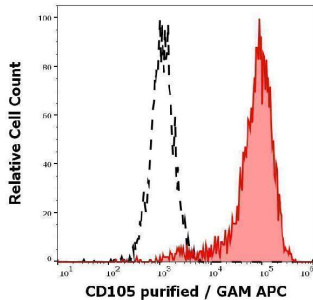
Product Name	Anti-Hu CD105 Purified ENG Monoclonal Antibody
Reactive Species	Human, Pig
Description	Boster Bio Anti-Hu CD105 Purified ENG Monoclonal Antibody (Catalog# M02997-2). Tested in Flow Cytometry, WB, IHC-F, ICC application(s). This antibody reacts with Pig, Human.
Application	Flow Cytometry, IHC-F, ICC, WB
Clonality	Monoclonal MEM-229
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

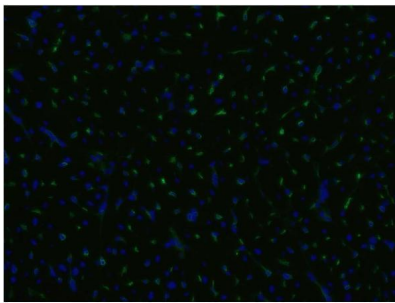
Immunogen	Recombinant Vaccinia virus containing the human CD105 (L-isoform) cDNA. The antibody MEM-229 recognizes an extracellular epitope of CD105 (Endoglin), a 90 kDa type I integral membrane homodimer glycoprotein expressed on vascular endothelial cells (small and large vessels), activated monocytes 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	Flow cytometry: 2-6 ug/ml; positive control: Kg1 human acute myelogenous leukemia cell line. Immunohistochemistry (frozen sections): 1:200, acetone fixation. Western blotting: Non-reducing conditions.

Anti-Hu CD105 Purified ENG Monoclonal Antibody (M02997-2) Images



Separation of HUVEC cells stained using anti-human CD105 (MEM-229) purified antibody (concentration in sample 3 $\mu\text{g/ml}$, red-filled, GAM APC) from HUVEC cells stained using mouse IgG1 isotype control (MOPC-21) purified antibody (concentration in sample 3 $\mu\text{g/ml}$, black-dashed, GAM APC) in flow cytometry analysis (surface staining).



Immunocytochemistry staining of an infarcted porcine heart with anti-CD105 (MEM-229; green); cell nuclei stained with DAPI (blue). Primary antibody dilution: 5 $\mu\text{g/ml}$.

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