

Datasheet for ABIN93939
anti-Endoglin antibody



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4 Images 1 Publication

Overview

Quantity:	0.1 mg
Target:	Endoglin (ENG)
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Endoglin antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP), Cytometry by Time of Flight (CyTOF)

Product Details

Immunogen:	Recombinant Vaccinia virus containing the human CD105 cDNA.
Clone:	MEM-226
Isotype:	IgG2a
Specificity:	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.
Cross-Reactivity (Details):	Human, Rat
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	Endoglin (ENG)
Alternative Name:	CD105 (ENG Products)
Background:	Endoglin,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.,Endoglin, END, ENG, HHT1, ORW1
Gene ID:	2022
UniProt:	P17813

Application Details

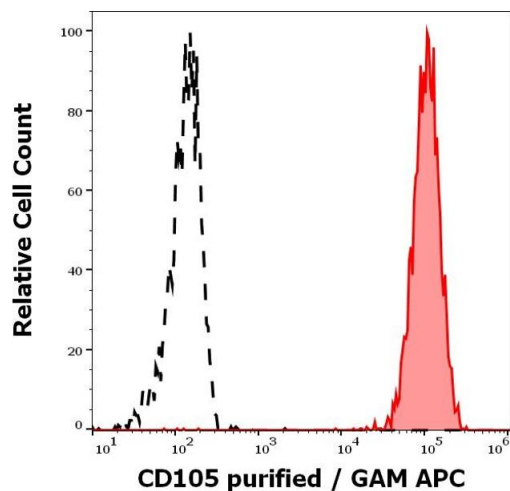
Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL. Western blotting: Non-reducing conditions.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

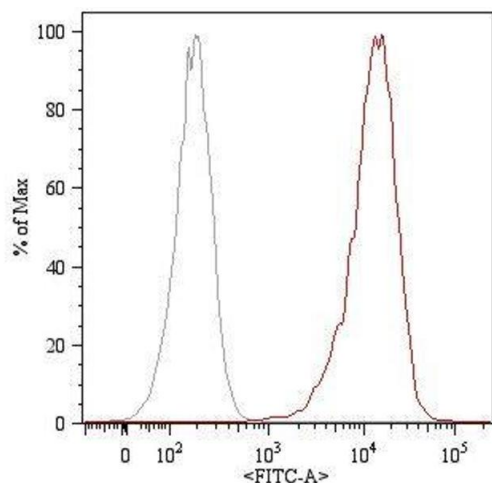
Publications

Product cited in:	Schmidt, Achermann, Odermatt, Breymann, Mol, Genoni, Zund, Hoerstrup: "Prenatally fabricated autologous human living heart valves based on amniotic fluid derived progenitor cells as single cell source." in: Circulation , Vol. 116, Issue 11 Suppl, pp. I64-70, (2007) (PubMed).
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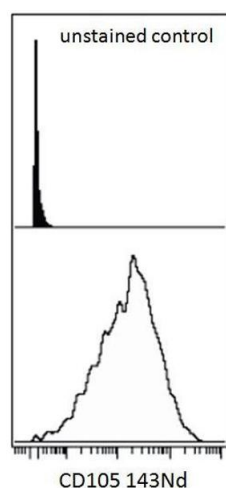
Flow Cytometry

Image 1. Separation of HUVEC cells stained using anti-human CD105 (MEM-226) purified antibody (concentration in sample 1.67 $\mu\text{g/mL}$, GAM APC, red-filled) from HUVEC cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).



Flow Cytometry

Image 2. Surface staining (flow cytometry) of HUVEC (human umbilical vein endothelial cells) with anti-human CD105 (MEM-226) FITC. Total viable cells were used for analysis.



Flow Cytometry

Image 3. Surface staining (mass cytometry) of hTERT cell line with anti-human CD105 (143Nd). Gated on singlets.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN93939.