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Datasheet for ABIN93943 anti-Endoglin antibody

3 Images

1 Publication



Overview

Quantity:	0.1 mg
Target:	Endoglin (ENG)
Reactivity:	Human, Pig
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Endoglin antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Recombinant Vaccinia virus containing the human CD105 (L-isoform) cDNA.
Clone:	MEM-229
lsotype:	lgG2a
Specificity:	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.
No Cross-Reactivity:	Dog, Horse
Cross-Reactivity (Details):	Human, Porcine
Purification:	Purified by protein-A affinity chromatography.

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Product Details

Purity:

>95 % (by SDS-PAGE)

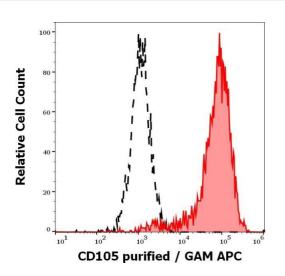
Target Details

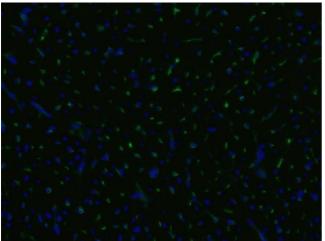
Target:	Endoglin (ENG)
Alternative Name:	CD105 (ENG Products)
Background:	Endoglin,CD105 (endoglin) is a homodimeric transmembrane glycoprotein serving in presence of TGFbetaR-2 as a receptor for TGFbeta-1 and TGFbeta-3. CD105 is highly expressed on endothelial cells and promotes angiogenesis during 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: 2-6 µg/mL, positive control: Kg1 human acute myelogenous leukemia cell line. Immunohistochemistry (frozen sections): Recommended dilution: 1:200, acetone fixation. 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.

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Plánka, Necas, Srnec, Rauser, Starý, Jancár, Amler, Filová, Hlucilová, Kren, Gál: "Use of allogenic stem cells for the prevention of bone bridge formation in miniature pigs." in: **Physiological research / Academia Scientiarum Bohemoslovaca**, Vol. 58, Issue 6, pp. 885-93, (2010) (PubMed).

Images





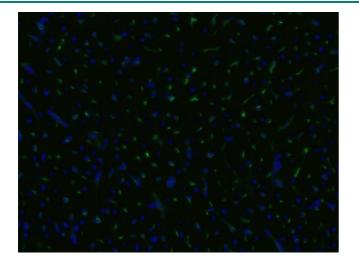
Flow Cytometry

Image 1. Separation of HUVEC cells stained using antihuman CD105 (MEM-229) purified antibody (concentration in sample 3 μ g/mL, red-filled, GAM APC) from HUVEC cells stained using mouse IgG1 isotype control (MOPC-21) purified antibody (concentration in sample 3 μ g/mL, blackdashed, GAM APC) in flow cytometry analysis (surface staining).

Immunofluorescence

Image 2. Immunofluorescence staining of an infarcted porcine heart with anti-CD105 (MEM-229;

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Immunocytochemistry

Image 3. Immunocytochemistry staining of an infarcted porcine heart with anti-CD105 (MEM-229, green), cell nuclei stained with DAPI (blue). Primary antibody dilution: 5 µg/mL.

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