Datasheet for ABIN810077

anti-Endoglin antibody (Biotin)

2 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µg
Target:	Endoglin (ENG)
Reactivity:	Human, Pig
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Endoglin antibody is conjugated to Biotin
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Anti-Hu CD105 Biotin
Immunogen:	Recombinant ***Vaccinia*** virus containing the human CD105 (L-isoform) cDNA.
Clone:	MEM-229
Isotype:	IgG2a
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

Product Details

Purification:	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

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: 8 µg/mL, positive control: Kg1 human acute myelogenous leukemia cell line.
Restrictions:	For Research Use only

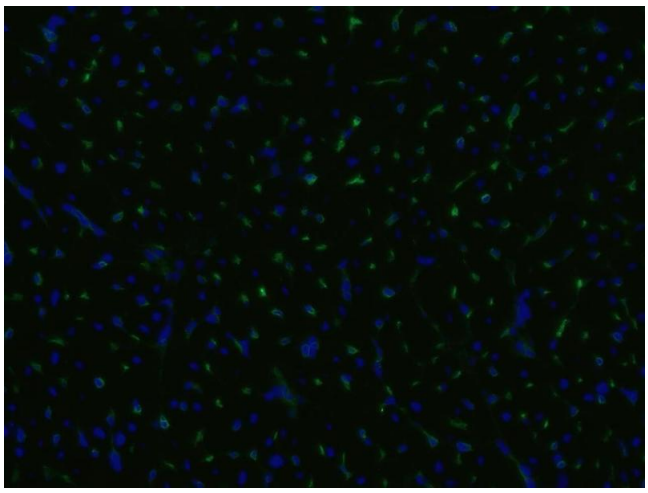
Handling

Concentration:	1 mg/mL
Buffer:	Stabilizing 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.** Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

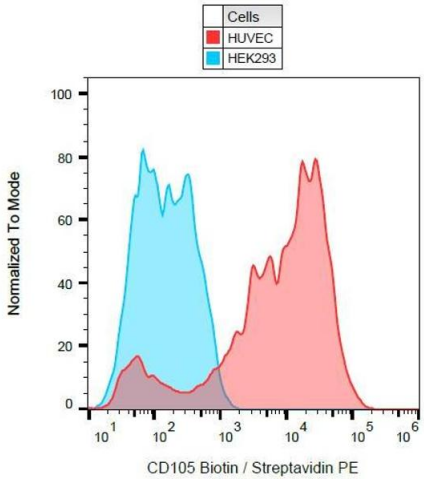
Product cited in:	Plánka, Necas, Srnec, Rauser, Starý, Jancár, Amler, Filová, Hlucilová, Kren, Gál: "Use of allogenic stem cells for the prevention of bone bridge formation in miniature pigs." in: **Physiological research / Academia Scientiarum Bohemoslovaca**, Vol. 58, Issue 6, pp. 885-93, (2010) (PubMed).

Images



Immunofluorescence

Image 1. Immunofluorescence staining of an infarcted porcine heart with anti-CD105 (MEM-229 ;



Flow Cytometry

Image 2. Surface staining of CD105 on Huvec cells with anti-CD105 (MEM-229) biotin.