Data Sheet (Cat.No.TMAY-00357F)

TargetMol

Anti-Endoglin/CD105 Antibody-FITC (5X880)

Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	FITC
Clone:	5X880
Purification:	Protein A

Applications

Verified Activity:	1. Flow cytometric analysis of CD105 expression on human HUVEC cells. HUVEC cells (Human umbilical vein endothelial cells) were stained with FITC Mouse anti-Human CD105 antibody (solid line fluorescence histogram) or a negative control at a matching concentration; dashed line histogram) antibody. Flow cytometric fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable cells. 2. Flow cytometric analysis of CD105 expression on human HeLa cells. HeLa cells were stained with FITC Mouse anti-Human CD105 antibody (solid line fluorescence histogram) or a negative control at a matching concentration; dashed line histogram) antibody. Flow cytometric fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable cells.
Application:	FCM
Recommended	10 μl/Test, 0.1 mg/ml

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human CD105 protein (TMPY-01384)
Antigen Species:	Human
Synonyms:	Endo;endoglin;AI662476;CD105;S-endoglin;AI528660
Biology Area:	Hemangioblast Markers, Cancer Drug Targets

Research Background

Endoglin, also known as CD105, is a type I homodimeric transmembrane glycoprotein with a large, disulfide-linked, extracellular region and a short, constitutively phosphorylated cytoplasmic tail. Endoglin contains an RGD tripeptide which is a key recognition structure in cellular adhesion,,suggesting a critical role for endoglin in the binding of endothelial cells to integrins and/or other RGD receptors. Endoglin is highly expressed on vascular endothelial cells, chondrocytes, and syncytiotrophoblasts of term placenta. It is also found on activated monocytes, mesenchymal stem cells and leukemic cells of lymphoid and myeloid lineages. As an accessory receptor for the TGF-β superfamily ligands, endoglin binds TGF-β1 and TGF-β3 with high affinity not by itself but by associating with TGF-β type II

receptor (TβRII) and activates the downstream signal pathways. In addition, in human umbilical vein endothelial cells, ALK-1 is also a receptor kinase for endoglin threonine phosphorylation, and mutations in either of the two genes result in the autosomal-dominant vascular dysplasia, hereditary hemorrhagic telangiectasia (HHT). Endoglin has been regarded as a powerful biomarker of neovascularization, and is associated with several solid tumor types.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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