

Mouse anti-Human Endoglin/CD105 Monoclonal Antibody | anti-ENG antibody

Anti-Endoglin/CD105 Antibody (FITC), Mouse Monoclonal

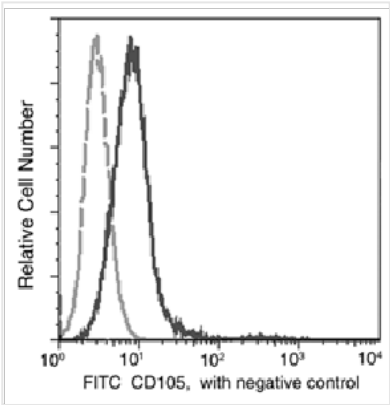
CATALOG # AAA254577	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

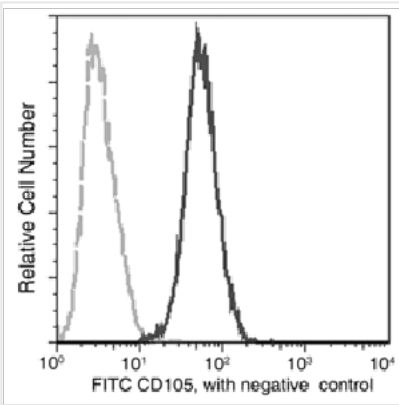
Endoglin/CD105; Monoclonal Antibody; Anti-Endoglin/CD105 Antibody (FITC); Mouse Monoclonal; Endoglin/CD105 Antibody (FITC); Mouse MAb; endoglin; Anti-END Antibody; Anti-HHT1 Antibody; Anti-ORW1 Antibody; anti-ENG antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	4A3G3D3
Specificity	Human Endoglin/CD105/ENG
Purity/Purification	Protein A
Form/Format	Liquid; Aqueous solution containing 0.5% BSA and 0.09% sodium azide
Concentration	10ul/Test, 0.1mg/ml (varies by lot)
Applicable Applications for anti-ENG antibody	FCM/FACS (Flow Cytometry)
Immunogen	Recombinant Human CD105 protein
Conjugation	FITC
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human Endoglin/CD105 (rh CD105). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography and conjugated with FITC under optimum conditions, the unreacted FITC was removed .
Preparation and Storage	This antibody can be stored at 2-8 degree C for twelve months without detectable loss of activity. Protected from prolonged exposure to light. Do not freeze! Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.



FCM/FACS (Flow Cytometry)
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.



FCM/FACS (Flow Cytometry)
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.

ADDITIONAL INFORMATION

Related Product Information for anti-ENG antibody	Endoglin, also known as CD15, 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-beta superfamily ligands, endoglin binds TGF-beta1 and TGF-beta3 with high affinity not by itself but by associating with TGF-beta type II receptor (TbetaRII) 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.
Product Categories/Family for anti-ENG antibody	Hemangioblast Markers Cancer Drug Targets
References	Bellon T., et al., (1993), Identification and expression of two forms of the human transforming growth factor-beta-binding protein endoglin with distinct cytoplasmic regions. Eur. J. Immunol. 23:2340-2345.Humphray S.J., et al., (2004), DNA sequence and analysis of human chromosome 9.Nature 429:369-374.Gougos A., et al., (1990), Primary structure of endoglin, an RGD-containing glycoprotein of human endothelial cells.J. Biol. Chem. 265:8361-8364.

NCBI AND UNIPROT INFORMATION

NCBI GI #	168693647
NCBI GeneID	2022
NCBI Accession #	NP_001108225.1
NCBI GenBank Nucleotide #	NM_001114753.2
Molecular Weight	67,542 Da
NCBI Official Full Name	endoglin isoform 1
NCBI Official Synonym Full Names	endoglin
NCBI Official Symbol	ENG

NCBI Official Synonym Symbols	END; HHT1; ORW1
NCBI Protein Information	endoglin; CD105 antigen

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/endoglin-cd105-antibody-clone-4a3g3d3-flow-cytometry-elisa/254577>