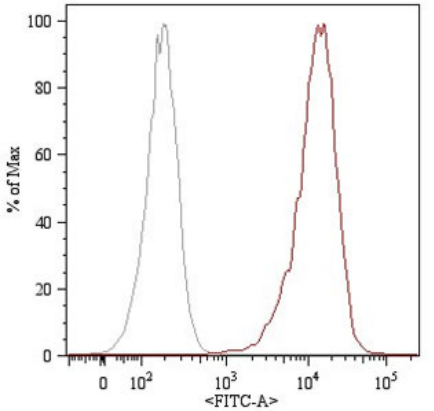
ENG monoclonal antibody, clone MEM-226 (FITC)

Catalog # MAB4501 Size 100 Reactions

Applications



Flow Cytometry

Surface staining of HUVEC (human umbilical vein endothelial cells) with ENG monoclonal antibody, clone MEM-226 (FITC) (Cat # MAB4501).
Total viable cells were used for analysis.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant ENG.
Immunogen	Recombinant protein corresponding to human ENG.
Host	Mouse
Theoretical MW (kDa)	180
Reactivity	Human
Specificity	This antibody recognizes CD105 (Endoglin), a 180 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.
Form	Liquid
Conjugation	FITC
Isotype	IgG2a

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Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Surface staining of HUVEC (human umbilical vein endothelial cells) with ENG monoclonal antibody, clone MEM-226 (FITC) (Cat # MAB4501).
  Total viable cells were used for analysis.

- Immunoprecipitation

- Western Blot

Gene Info — ENG

Entrez GeneID	2022
Gene Name	ENG
Gene Alias	CD105, END, FLJ41744, HHT1, ORW, ORW1
Gene Description	endoglin
Omim ID	131195 187300
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a homodimeric transmembrane protein which is a major glycoprotein of the va scular endothelium. This protein is a component of the transforming growth factor beta receptor c omplex and it binds TGFB1 and TGFB3 with high affinity. Mutations in this gene cause hereditary hemorrhagic telangiectasia, also known as Osler-Rendu-Weber syndrome 1, an autosomal domin ant multisystemic vascular dysplasia. Alternatively spliced transcript variants encoding different is oforms have been found for this gene. [provided by RefSeq
Other Designations	CD105 antigen|OTTHUMP00000022221|Osler-Rendu-Weber syndrome 1

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Publication Reference

- Significant expression of endoglin (CD105), TGFbeta-1 and TGFbeta R-2 in the atherosclerotic aorta: an immunohistological study.

  Piao M, Tokunaga O.

  Journal of Atherosclerosis and Thrombosis 2006 Apr; 13(2):82.

- Functional role of CD105 in TGF-beta1 signalling in murine and human endothelial cells.

  Warrington K, Hillarby MC, Li C, Letarte M, Kumar S.

  Anticancer Research 2005 May; 25(3B):1851.

- CD105 inhibits transforming growth factor-beta-Smad3 signalling.

  Guo B, Slevin M, Li C, Parameshwar S, Liu D, Kumar P, Bernabeu C, Kumar S.

  Anticancer Research 2004 May; 24(3a):1337.

Disease

- Aneurysm
- Arteriovenous Malformations
- Cardiovascular Diseases
- Central Nervous System Vascular Malformations
- Chromosome Aberrations
- Diabetes Mellitus
- Edema
- Epistaxis
- Genetic Predisposition to Disease
- Heart Defects
- Hypertension
- Intracranial Aneurysm

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- Intracranial Arteriovenous Malformations
- Kidney Failure
- Liver Cirrhosis
- Liver Diseases
- Lung Neoplasms
- Pre-Eclampsia
- Pulmonary Disease
- Scleroderma
- Stroke
- Subarachnoid Hemorrhage
- Telangiectasia
- Urinary Bladder Neoplasms
- Werner syndrome

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