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Datasheet

ENG monoclonal antibody, clone MEM-226

Catalog Number: MAB3850

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against recombinant ENG.

Clone Name: MEM-226

Immunogen: Recombinant protein corresponding to human ENG.

Host: Mouse

Theoretical MW (kDa): 180

Reactivity: Human

Applications: Flow Cyt, IP, WB
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This antibody reacts with CD105 (Endoglin), a 180 KDa type I homodimerizing membrane 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

Isotype: IgG2a

Recommend Usage: The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS, pH 7.4 (0.09% sodium azide)

Storage Instruction: Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 2022

Gene Symbol: ENG

Gene Alias: CD105, END, FLJ41744, HHT1, ORW, ORW1

Gene Summary: This gene encodes a homodimeric transmembrane protein which is a major glycoprotein of the vascular endothelium. This protein is a component of the transforming growth factor beta receptor complex 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 dominant multisystemic vascular dysplasia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

References:

1. Significant expression of endoglin (CD105), TGFbeta-1 and TGFbeta R-2 in the atherosclerotic aorta: an immunohistological study. Piao M, Tokunaga O. J Atheroscler Thromb. 2006 Apr;13(2):82-9.
2. 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 Res. 2005 May-Jun;25(3B):1851-64.
3. 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 Res. 2004 May-Jun;24(3a):1337-45.