

Product datasheet for DM3612B

Eng Rat Monoclonal Antibody [Clone ID: MJ7/18]

Product data:

Product Type: Primary Antibodies

Clone Name: MJ7/18

Applications: FC, IHC, IP, WB

Recommended Dilution: ELISA.

Western Blot: 2-5 μg/ml. Immuoprecipitation: 1-2 μg. FACS analysis: 3-20 μg/ml.

Immunohistochemistry on Frozen Sections.

Reactivity: Mouse

Host: Rat IgG2a

Clonality: Monoclonal

Immunogen: Murine stromal cell line

Specificity: This *MJ7/18* Monoclonal antibody reacts with the CD105 molecule, also known as Endoglin.

Formulation: PBS

Label: Biotin

State: Lyophilized purified IgG fraction of the Culture Supernatant

Stabilizer: 50xBSA

Preservative: 0.02% Sodium Azide

Reconstitution Method: Restore in sterile water to a concentration of 0.1-1.0 mg/ml.

Purification: Protein G Chromatography

Conjugation: Biotin

Storage: Store lyophilized at 2-8°C for 6 months or at -20°C long term.

After reconstitution store the antibody undiluted at 2-8°C for one month

or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: endoglin



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Database Link: Entrez Gene 13805 Mouse

Q63961

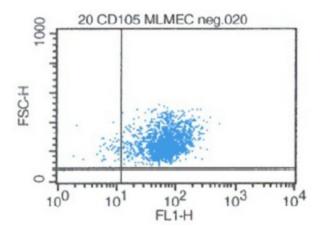
Background:

Mouse Endoglin is a disulfide-linked homodimeric protein. Based on N-terminal sequence analysis the primary structure of recombinant mature Endoglin starts at Glu 26. Endoglin has a calculated monomeric molecular mass of 61 kDa but as a result of glycosylation, migrates at approximately 70-75 kDa under reducing conditions in SDS-PAGE. Endoglin, also known as CD105, is a Type I integral membrane glycoprotein with a large, disulfide-linked, extracellular region and a short, constitutively phosphorylated, cytoplasmic tail. Two splice variants of human Endoglin, the S-Endoglin and L-Endoglin that differ in the length of their cytoplasmic tails have been identified. Endoglin is highly expressed on vascular endothelial cells, chondrocytes, and syncytiotrophoblasts of term placenta. It is also found on activated monocytes, bone marrow pro-erythroblasts, and leukemic cells of lymphoid and myeloid lineages. Human and mouse Endoglin share approximately 70% and 97 % amino acid sequence identity in their extracellular and intracellular domains, respectively. Endoglin binds TGF-ß1 and TGF-ß3 but not TGF-ß2 efficiently by associating with TGF-ß type II receptor (TßRII).

Endoglin has been shown to be a powerful marker of neovascularization. It is also useful as a functional marker that defines long-term repopulating hematopoietic stem cells.

Synonyms: ENG, END, HHT1, ORW, ORW1

Product images:



FACS analysis with mouse lung microvascular endothelial cells (MLMEC).