

Rat anti-Mouse CD105/Endoglin Monoclonal Antibody | anti-CD105 antibody

Rat Anti-Mouse CD105/Endoglin

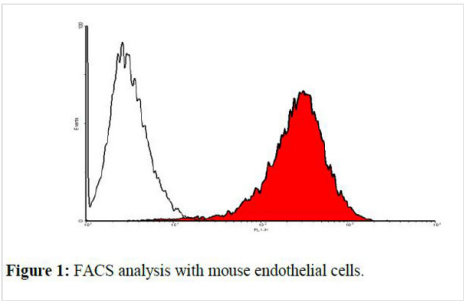
CATALOG # AAA79109	HOST Rat	REACTIVITY Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD105/Endoglin; Monoclonal Antibody; Rat Anti-Mouse CD105/Endoglin; Anti-mouse CD105/Endoglin-PE (#MJ7/18); Cell surface MJ7/18 antigen; CD105; Endoglin; anti-CD105 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	MJ7/18 / IgG2a
Specificity	The unconjugated antibody will detect native mouse CD105 in Western analysis and on the surface of mouse endothelial cells.
Purity/Purification	Protein G purified
Form/Format	Liquid
Concentration	200 ug/ml (varies by lot)
Sequence Length	653
Applicable Applications for anti-CD105 antibody	FCM/FACS (Flow Cytometry)
Immunogen	murine stromal cell line
Conjugation	PE
Preparation	Monoclonal antibodies were produced by immunizing rats with inflamed mouse skin.
Buffer/Stabilizer	PBS; 1% BSA
Preservative	0,02% sodium azide
Warning	Reagents contain sodium azide. Under acidic conditions sodium azide yields hydrazoic acid, this is extremely toxic. Azide compounds should be diluted with running water before discarding. These precautions are recommended to avoid deposits in plumbing where explosive conditions may develop.
Preparation and Storage	Store protected from light at 2-8 degree C. DO NOT FREEZE!



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CD105 antibody	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 pre-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-beta1 and TGF-beta3 but not TGF-beta2 efficiently by associating with TGF-beta type II receptor (TbetaRII). 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.
References	1. Cheifetz et al., J Biol Chem 267:19027, 1992 2. Parker et al., J Bone Miner Res 18:289, 2003 3. Barbara et al., J Biol Chem 274:584, 1999 4. McAllister et al., Nature Genet 8:345, 1994 5. Chen et al., Proc Natl Acad Sci 99:15468, 2002

NCBI AND UNIPROT INFORMATION

NCBI GI #	226437647
NCBI GeneID	13805
NCBI Accession #	NP_031958.2
NCBI GenBank Nucleotide #	NM_007932.2
UniProt Accession #	Q63961; Q61520; Q8K100
Molecular Weight	70,021 Da
NCBI Official Full Name	endoglin isoform 1
NCBI Official Synonym Full Names	endoglin
NCBI Official Symbol	Eng
NCBI Official Synonym Symbols	Endo; CD105; AI528660; AI662476; S-endoglin
NCBI Protein Information	endoglin; transmembrane glycoprotein; cell surface MJ7/18 antigen
UniProt Protein Name	Endoglin
UniProt Gene Name	Eng
UniProt Synonym Gene Names	Edg
UniProt Entry Name	EGLN_MOUSE

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://stage.aaabiotech.com/monoclonal/cd105-endoglin-antibody-clone-mj7-18-igg2a-flow-cytometry-elisa/79109>