Anti-mouse CD105/Endoglin

20140702BB

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**103-PA60**
Size:	200 µg
Lot. No.:	According to product label
Country of origin:	Germany

Preparation: Produced from sera of rabbits pre-immunized with highly pure recombinant mouse soluble CD105/Endoglin (Glu26-Leu581) derived from insect cells.

Target Background

Synonyms:	Cell surface MJ7/18 antigen, CD105, Endoglin

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-β1 and TGF-β3 but not TGF-β2 efficiently by associating with TGF-β 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.

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

Database References Antigen

Protein RefSeq:	NP_000109
Uniprot ID:	P17813
mRNA RefSeq:	NM_000118

Product Specifications

Species reactivity	mouse
Clone/Ab feature	Rabbit IgG
Cross reactivity	ND
Host	rabbit
Clonality	polyclonal
Purification	Protein A purified
Immunogen	Recombinant mouse sCD105/Endoglin (RT #S01-023)
Formulation	lyophilized
Buffer	PBS

Stability: The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.

Reconstitution: Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml.

AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

ELISA:	Use 1-15 µg/ml
Western Blot:	Use 1-5 mg/ml
FACS	Use at 1-10 µg/ml

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!

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Handling/Applications

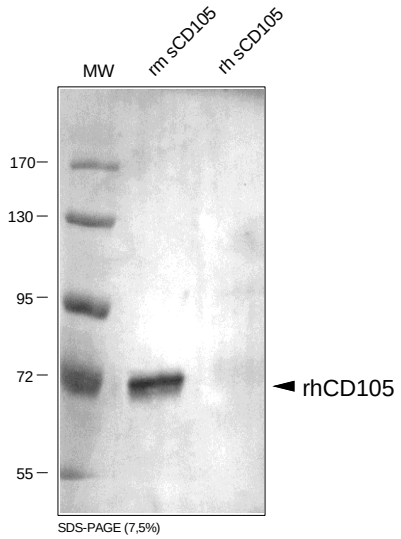

Fig. 1: Western analysis with anti-mouse CD105. There is no cross reaction with human sCD105.

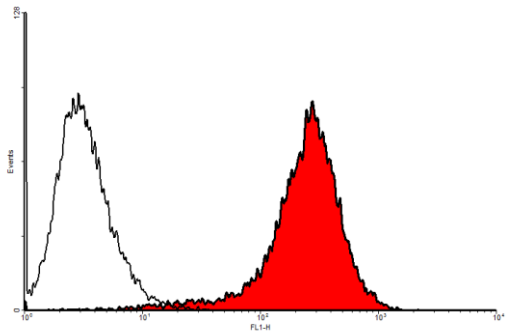

Figure 2. FACS analysis with primary mouse endothelial cells (SnoMec).