Rabbit Anti-Mouse Endoglin Monoclonal Antibody

Cat. No. CAB11530RM **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Mouse Endoglin
Species	Mouse
Source	Rabbit
Antigen Description	Mouse endoglin, also known as CD105, is a type Ihomodimeric transmembrane glycoprotein with a large, disulfide-linked, extracellular region and a short, constitutively phosphorylated, cytoplasmic tail. Endoglin contains an RGD tripeptide, a key recognition structure in cellular adhesion, and suggests a critical role for endoglin in the binding of endothelial cells to integrins and/or other RGD receptors. Endoglin is highly expressed on vascular endothelial cells, chondrocytes, and syncytiotrophoblasts of term placenta. It is also found on activated monocytes, mesenchymal stem cells and leukemic cells of lymphoid and myeloid lineages. As an accessory receptor for the TGF-β superfamily ligands, endoglin binds TGF-β1 and TGF-β3 with high affinity not by itself but by associating with TGF-β type I?I receptor (TβRII) and activates the downstream signal pathway. In addition, ALK-1 is also a receptor kinase in human umbilical vein endothelial cells for endoglin threonine phosphorylation, and mutations in either result in the autosomal-dominant vascular dysplasia, hereditary hemorrhagic telangiectasia (HHT). Endoglin has been regarded as a powerful marker of neovascularization, and associated with several solid tumor types.
Specificity	Mouse Endoglin / CD105 / ENG. No cross-reactivity in ELISA with Human CD105;

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	Human cell lysate (293 cell line)
Immunogen	Recombinant Mouse Endoglin / CD105 / ENG Protein
Isotype	Rabbit IgG
Clone	A002
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 μg/mL with the appropriate secondary reagents to detect Mouse ENG in WB. Using a DAB detection system, the detection limit for Mouse ENG is approximately 0.5 ng/lane under non-reducing conditions and 2 ng/lane under reducing conditions.ELISA: This antibody can be used at 0.1-0.2 μg/mL with the appropriate secondary reagents to detect Mouse ENG. The detection limit for Mouse ENG is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse Endoglin / CD105 / ENG.
Format	0.2 μm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Eng endoglin [Mus musculus]

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Official Symbol	Eng
Synonyms	ENG; endoglin; transmembrane glycoprotein; cell surface MJ7/18 antigen; CD105; AI528660; AI662476; S-endoglin;
Gene ID	13805
mRNA Refseq	NM_001146348
Protein Refseq	NP_001139820
Pathway	TGF Beta Signaling Pathway, organism-specific biosystem; TGF-beta Receptor Signaling Pathway, organism-specific biosystem;
Function	binding; galactose binding; glycosaminoglycan binding; protein homodimerization activity; protein homodimerization activity; transforming growth factor beta binding; transforming growth factor beta binding; transforming growth factor beta receptor, cytoplasmic mediator activity; transforming growth factor beta-activated receptor activity; type I transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding;

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