CD105/Endoglin Antibody (Center E395)

ALTERNATE NAMES: ENG; END; Endoglin

CATALOG #: 6800-100

AMOUNT: 100 µl

HOST/ISOTYPE: Rabbit

IMMUNOGEN: This CD105 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 380-409 amino acids from the Central region of human CD105.

MOLECULAR WEIGHT: ~70.578 kDa

FORM: Liquid

FORMULATION: In PBS with 0.09% (W/V) sodium azide.

PURIFICATION: This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

SPECIES REACTIVITY: Human, Mouse.

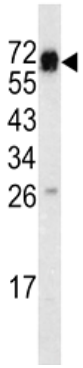
STORAGE CONDITIONS: Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

DESCRIPTION: Endoglin (ENG, CD105) is an auxiliary receptor for the TGF-β receptor complex, functioning in related signaling pathways. Endoglin is a transmembrane protein that exists as a disulfide-linked homodimer. It is mainly expressed in vascular and connective tissues and in endothelial and stromal cells. Upregulated endoglin expression has been reported during wound healing and tumor vascularization, and in inflammatory tissues and developing embryos. Mutations in endoglin have been found to be a causal factor of hereditary hemorrhagic telangiectasia (HHT), a disease characterized by malformation of vascular structure. The importance of this protein for normal and tumor vascular function makes it a good marker for endothelial cell proliferation as well as a potential therapeutic target in cancer.

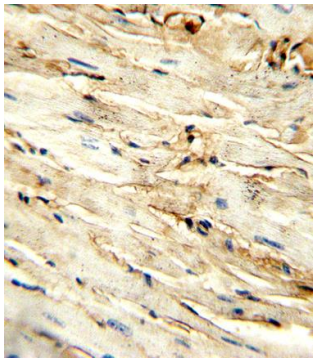
APPLICATION: WB: 1:1000, IHC: 1:10 – 1:50, FC: 1:10 – 1:50.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.

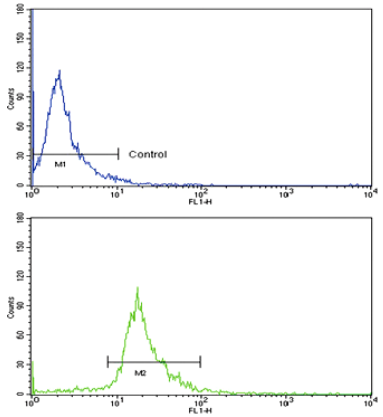
FOR RESEARCH USE ONLY! Not to be used on humans.



Western blot analysis of CD105 antibody (Center E395) in mouse heart tissue lysates (35 µg/lane). CD105 (arrow) was detected using the purified pAb.



CD105 antibody (Center E395) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CD105 antibody (Center E395) for immunohistochemistry.



FACS analysis of NCI-H292 cells using CD105 Antibody (Center E395) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

RELATED PRODUCTS:

- Endoglin, human recombinant **(Cat. No. 4530-10, -100)**
- Endoglin, murine recombinant **(Cat. No. 4531-10, -100)**