

**CD105 Antibody (Center E395)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2880C****Specification**

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**CD105 Antibody (Center E395) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">P17813</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	380-409

**CD105 Antibody (Center E395) - Additional Information****Gene ID** 2022**Other Names**

Endoglin, CD105, ENG, END

**Target/Specificity**

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.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CD105 Antibody (Center E395) is for research use only and not for use in diagnostic or therapeutic procedures.

**CD105 Antibody (Center E395) - Protein Information****Name** ENG**Synonyms** END

**Function** Vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis (PubMed:[21737454](#), PubMed:[23300529](#)). Required for normal structure and integrity of adult vasculature (PubMed:[7894484](#)). Regulates the migration of vascular endothelial cells (PubMed:[17540773](#)). Required for normal extraembryonic angiogenesis and for embryonic heart development (By similarity). May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis (By similarity). May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors (PubMed:[1692830](#)). Acts as a TGF-beta coreceptor and is involved in the TGF-beta/BMP signaling cascade that ultimately leads to the activation of SMAD transcription factors (PubMed:[21737454](#), PubMed:[22347366](#), PubMed:[23300529](#), PubMed:[8370410](#)). Required for GDF2/BMP9 signaling through SMAD1 in endothelial cells and modulates TGFB1 signaling through SMAD3 (PubMed:[21737454](#), PubMed:[22347366](#), PubMed:[23300529](#)).

#### Cellular Location

Cell membrane; Single-pass type I membrane protein

#### Tissue Location

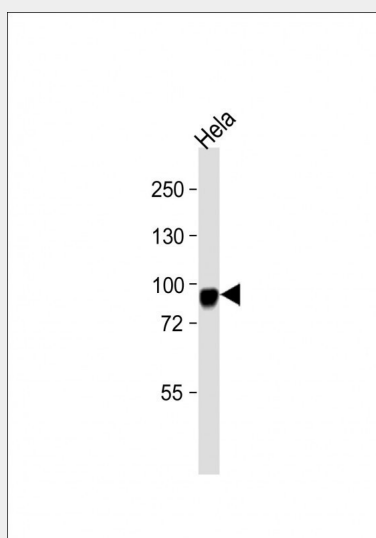
Detected on umbilical vein endothelial cells (PubMed:10625079). Detected in placenta (at protein level) (PubMed:1692830). Detected on endothelial cells (PubMed:1692830)

### CD105 Antibody (Center E395) - Protocols

Provided below are standard protocols that you may find useful for product applications.

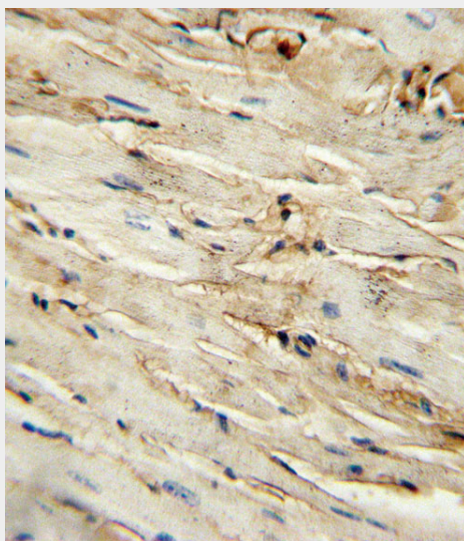
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CD105 Antibody (Center E395) - Images

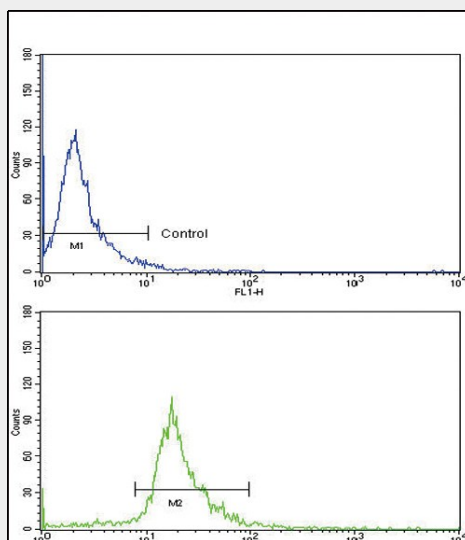


Anti-CD105 Antibody (Center E395) at 1:1000 dilution + HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000

dilution. Predicted band size : 95 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



CD105 antibody (Center E395) (Cat. #AP2880c) 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. Clinical relevance has not been evaluated.



Flow cytometric 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.

### CD105 Antibody (Center E395) - Background

CD105 is a homodimeric transmembrane protein which is a major glycoprotein of the vascular endothelium. This protein is a component of the transforming growth factor beta receptor complex and it binds TGFB1 and TGFB3 with high affinity. Mutations in its gene cause hereditary hemorrhagic telangiectasia, also known as Osler-Rendu-Weber syndrome 1, an autosomal dominant multisystemic vascular dysplasia.

### CD105 Antibody (Center E395) - References

Chen,Y., Ann. Neurol. 66 (1), 19-27 (2009)  
Rius,C., Blood 92 (12), 4677-4690 (1998)