

# CD105 (14B19) Rabbit Monoclonal Antibody

CD105 (14B19) Rabbit Monoclonal Antibody Catalog # AP93819

## **Specification**

### CD105 (14B19) Rabbit Monoclonal Antibody - Product Information

Application WB, IHC, IF, FC, ICC, IP
Primary Accession
Reactivity Mouse
Clonality Monoclonal
Calculated MW 70021

### CD105 (14B19) Rabbit Monoclonal Antibody - Additional Information

**Gene ID 13805** 

#### **Other Names**

Endoglin, Cell surface MJ7/18 antigen, CD105, Eng, Edg

#### **Dilution**

WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50 ICC~~N/A IP~~N/A

#### **Storage Conditions**

-20°C

# CD105 (14B19) Rabbit Monoclonal Antibody - Protein Information

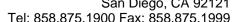
## **Name Eng**

**Synonyms** Edg

## **Function**

Vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis (PubMed:<a href="http://www.uniprot.org/citations/10625534" target="\_blank">10625534</a>). Required for normal structure and integrity of adult vasculature (By similarity). Regulates the migration of vascular endothelial cells (PubMed:<a

href="http://www.uniprot.org/citations/17540773" target="\_blank">17540773</a>). Required for normal extraembryonic angiogenesis and for embryonic heart development (PubMed:<a href="http://www.uniprot.org/citations/10625534" target="\_blank">10625534</a>). May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis (PubMed:<a href="http://www.uniprot.org/citations/28530658" target="\_blank">28530658</a>). May play a role in the binding of endothelial cells to integrins. 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:<a href="http://www.uniprot.org/citations/23300529" target=" blank">23300529</a>). Required for GDF2/BMP9 signaling through SMAD1 in endothelial cells and modulates TGFB1 signaling through SMAD3 (By similarity).

#### **Cellular Location**

Cell membrane; Single-pass type I membrane protein

#### **Tissue Location**

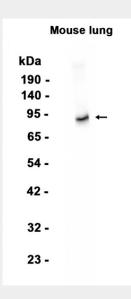
Detected on blood vessels (at protein level) (PubMed:8194490). Detected on adult pulmonary artery, capillaries supporting the heart muscle and lung alveolar capillary endothelial cells (PubMed:10625534). Endoglin is restricted to endothelial cells in all tissues except bone marrow and is also found in stromal cells within the connective tissue of intestine, stomach, heart, skeletal muscle, uterus, ovary, oviduct, testis and thymus (PubMed:8194490)

# CD105 (14B19) Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

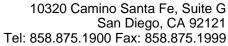
# CD105 (14B19) Rabbit Monoclonal Antibody - Images



Western blot analysis of extracts from Mouse lung tissue using AP93819 at 1:1000.

## CD105 (14B19) Rabbit Monoclonal Antibody - Background

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extraembryonic angiogenesis and for embryonic heart development (PubMed:10625534). May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis (PubMed:28530658).