




## Rabbit Anti-CD105 antibody

SL0579R

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| <b>Product Name:</b>  | CD105  |
| <b>Chinese Name:</b>  | CD105抗体  |
| <b>Alias:</b>   | END; Endoglin; ENG; FLJ41744; HHT1; ORW; ORW1; Osler Rendu Weber syndrome 1; RP11 228B15.2; CD 105; CD105 antigen; EGLN_HUMAN; AI528660; AI662476; S-endoglin; SN6.  |
| <b>文献引用</b><br> | <p><b>Specific References(5)</b> SL0579R has been referenced in 5 publications.</p> <p><b>[IF=3.65]</b>Boopathy, Archana V., et al. "Oxidative stress-induced Notch1 signaling promotes cardiogenic gene expression in mesenchymal stem cells." Stem cell research &amp; therapy 4.2 (2013): 1-15.<b>FCM;Rat.</b><br/><a href="#">PubMed:23597145</a></p> <p><b>[IF=1.64]</b>Naderi-Meshkin, Hojjat, et al. "Injectable hydrogel delivery plus preconditioning of mesenchymal stem cells: exploitation of SDF-1/CXCR4 axis towards enhancing the efficacy of stem cells homing." Cell Biology International (2015).<b>FCM;Rat.</b><br/><a href="#">PubMed:25825165</a></p> <p><b>[IF=2.31]</b>Fan, Hai-Xia, et al. "Expression of MMP-1/PAR-1 and patterns of invasion in oral squamous cell carcinoma as potential prognostic markers." OncoTargets and therapy 8 (2015): 1619.<b>IHC-P;Human.</b><br/><a href="#">PubMed:26170698</a></p> <p><b>[IF=1.52]</b>Tepekoy, Filiz, et al. "CD90 and CD105 expression in the mouse ovary and testis at different stages of postnatal development." Reproductive Biology(2015).<b>IHC-P;Mouse.</b></p> |

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|                               | <p style="text-align: right;">PubMed:26679159</p> <p>[IF=0.52]Utomo, Pamudji, et al. ""Decreasing SDF1-CXCR4 Expression after Adipose-Derived Mesenchymal Stem Cells (ASCS) Treatment Combined with Freeze-Dried Amniotic Membrane Wrapping in Rat Sciatic Nerve Injury."" International Journal of ChemTech Research.<b>IF(ICC);Rat.</b></p> <p style="text-align: right;">PubMed:0</p>   |
| <b>Organism Species:</b>      | Rabbit   |
| <b>Clonality:</b>             | Polyclonal   |
| <b>React Species:</b>         | Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,   |
| <b>Applications:</b>          | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.  |
| <b>Molecular weight:</b>      | 70kDa  |
| <b>Cellular localization:</b> | The cell membrane  |
| <b>Form:</b>                  | Lyophilized or Liquid  |
| <b>Concentration:</b>         | 1mg/ml   |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human CD105:601-658<Cytoplasmic>   |
| <b>Lsotype:</b>               | IgG  |
| <b>Purification:</b>          | affinity purified by Protein A   |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.   |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.  |
| <b>PubMed:</b>                | <a href="#">PubMed</a>   |
| <b>Product Detail:</b>        | <p>This gene encodes 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 to the beta1 and beta3 peptides with high affinity. Mutations in this gene cause hereditary hemorrhagic telangiectasia, also known as Osler-Rendu-Weber syndrome 1, an autosomal dominant multisystemic vascular dysplasia. This gene may also be involved in preeclampsia and several types of cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2013]</p> <p><b>Function:</b><br/>Major glycoprotein of vascular endothelium. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors.</p> <p><b>Subunit:</b><br/>Homodimer that forms an heteromeric complex with the signaling receptors for transforming growth factor-beta: TGFBR1 and/or TGFBR2. It is able to bind TGF-beta 1, and 3 efficiently and TGF-beta 2 less efficiently. Interacts with TCTEX1D4. Interacts</p> |

with ARRB2.

**Subcellular Location:**

Membrane; Single-pass type I membrane protein.

**Tissue Specificity:**

Endoglin is restricted to endothelial cells in all tissues except bone marrow.

**DISEASE:**

Defects in ENG are the cause of hereditary hemorrhagic telangiectasia type 1 (HHT1) [MIM:187300]; also known as Osler-Rendu-Weber syndrome 1 (ORW1). HHT1 is an autosomal dominant multisystemic vascular dysplasia, characterized by recurrent epistaxis, muco-cutaneous telangiectases, gastro-intestinal hemorrhage, and pulmonary (PAVM), cerebral (CAVM) and hepatic arteriovenous malformations; all secondary manifestations of the underlying vascular dysplasia. Although the first symptom of HHT1 in children is generally nose bleed, there is an important clinical heterogeneity.

**SWISS:**

P17813

**Gene ID:**

2022

**Database links:**

[Entrez Gene: 2022](#)Human

[Omic: 131195](#)Human

[SwissProt: P17813](#)Human

[Unigene: 76753](#)Human

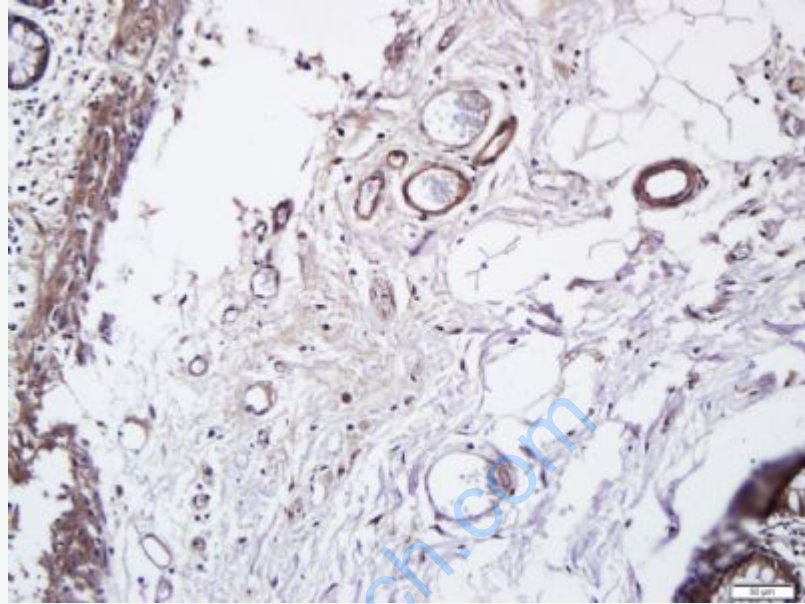
**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

The cell membrane受体 (Membrane Receptors)

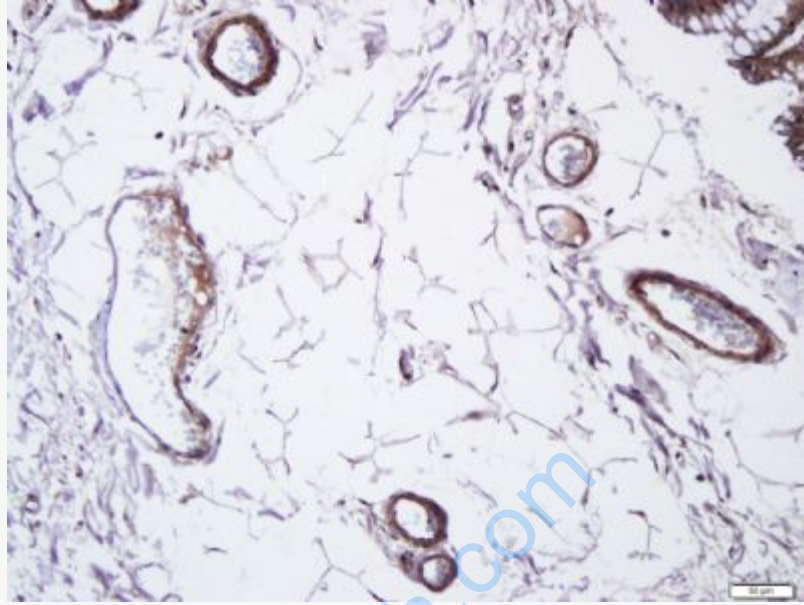
CD105 (Endoglin) : CD105是一种存在于细胞表面的同源二聚体跨膜glycoprotein, 是TGF-β受体复合物的组成部分, 是TGF-β的附属受体, 能与多种TGF-β超家族成员结合尤其与TGF-β1、TGF-β3有很高的亲和力, 调节TGF-βs与其受体结合而参与信号传导, 是endothelial cells增殖相关膜抗原, 在培养的高增殖活性endothelial cells和许多恶性Tumour组织vascular endothelial cell中高表达, 参与血管生成, 但其在血管生成调节中的作用机制尚未阐明。主要用

于各种恶性Tumour组织中的血管生成的研究,

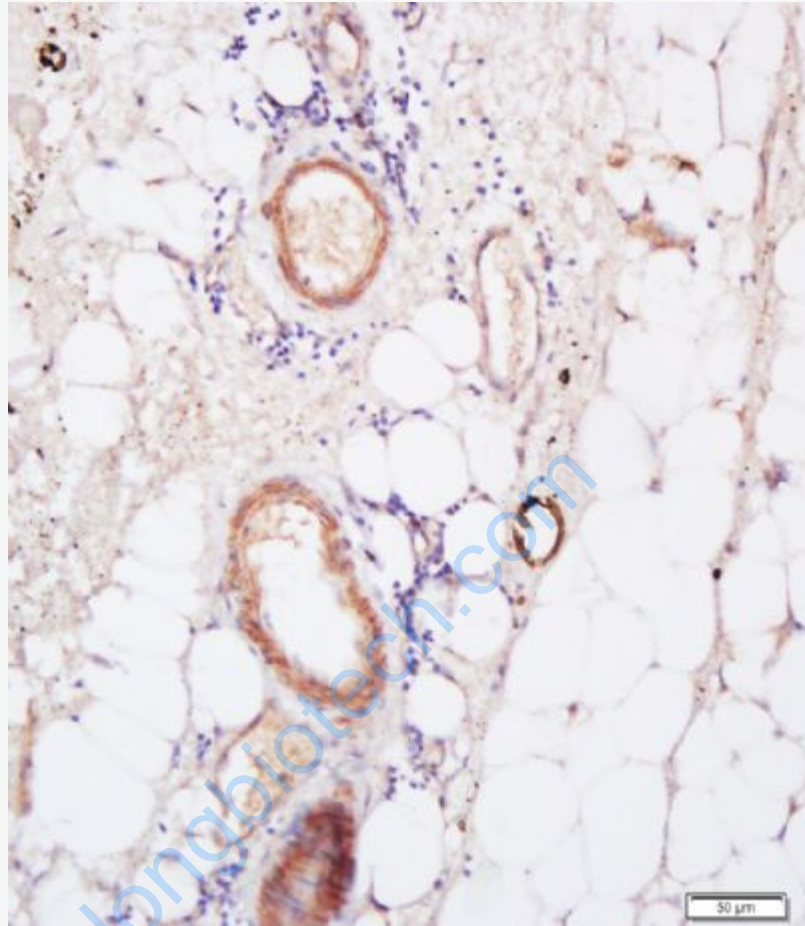


Picture:

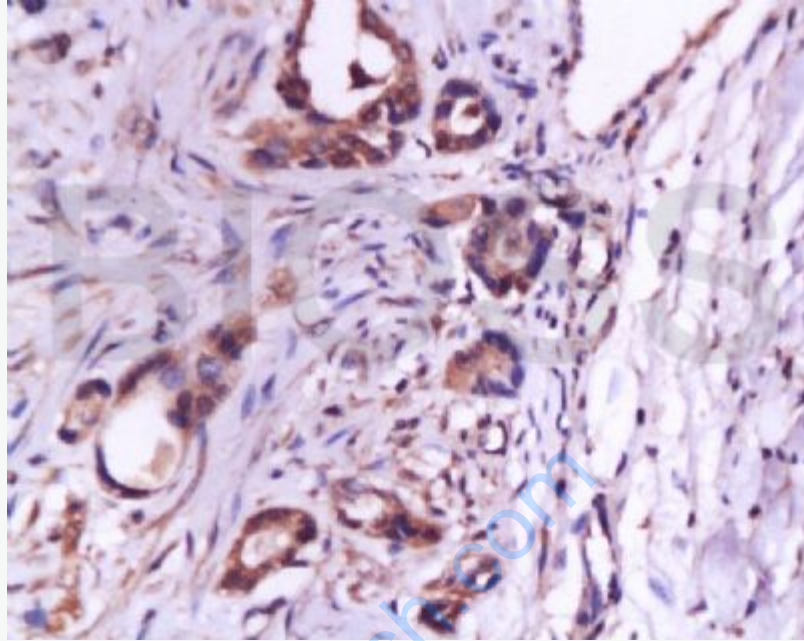
Paraformaldehyde-fixed, paraffin embedded (human cervix cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD105) Polyclonal Antibody, Unconjugated (SL0579R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD105) Polyclonal Antibody, Unconjugated (SL0579R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



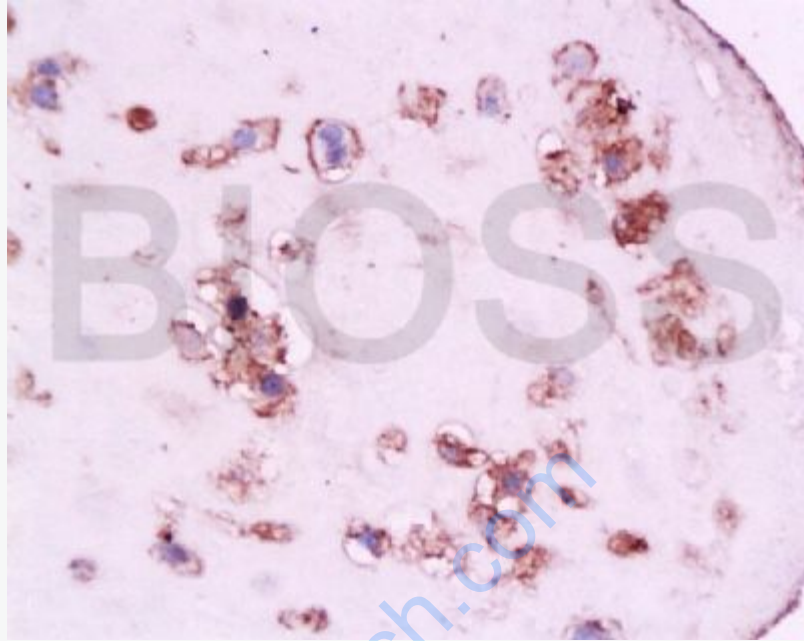
Paraformaldehyde-fixed, paraffin embedded (human cervix cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD105) Polyclonal Antibody, Unconjugated (SL0579R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CD105 Polyclonal Antibody, Unconjugated(SL0579R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CD105 Polyclonal Antibody, Unconjugated(SL0579R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining