

For Research Use Only

# Endoglin/CD105 Polyclonal antibody



Catalog Number: 10862-1-AP

8 Publications

## Basic Information

**Catalog Number:**

10862-1-AP

**Size:**

150ul , Concentration: 500 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1287

**GenBank Accession Number:**

BC014271

**GeneID (NCBI):**

2022

**Full Name:**

endoglin

**Calculated MW:**

71 kDa

**Observed MW:**

75-90 kDa, 170-180 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB

IHC 1:1000-1:4000

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

Bovine, human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB: human placenta tissue,

IP: mouse lung tissue,

IHC: human breast cancer tissue, human placenta tissue

## Background Information

Endoglin (ENG, CD105) is a homodimeric cell membrane glycoprotein of 180 kDa, composed of disulphide-linked subunits of 90-95 kDa. Endoglin is a proliferation-associated and hypoxia-inducible protein mainly expressed on vascular endothelial cells. It acts as an accessory receptor for transforming growth factor beta (TGF-β) and is involved in vascular development and remodelling. The important role of Endoglin in angiogenesis and in tumor progression makes it an ideal target for antiangiogenic therapy and a good marker for tumor prognosis. (PMID: 1326540; 14528280; 21737653; 12773481)

## Notable Publications

Author	Pubmed ID	Journal	Application
Xin-Xin Zhao	30460778	J Exp Zool B Mol Dev Evol	IF
Qi Li	32125888	Cell Reprogram	
Meicen Zhou	34345214	Int J Biol Sci	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

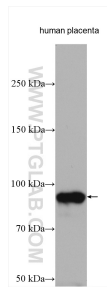
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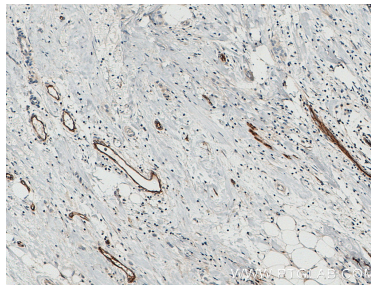
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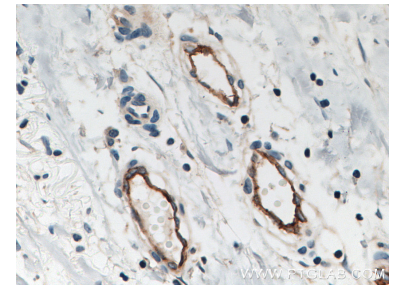
## Selected Validation Data



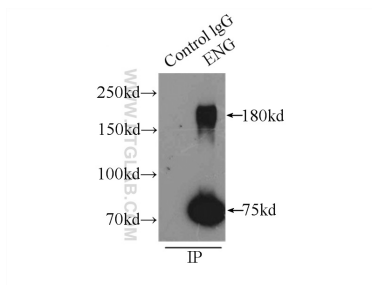
Various lysates were subjected to SDS PAGE followed by western blot with 10862-1-AP (Endoglin/CD105 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10862-1-AP (Endoglin/CD105 antibody) at dilution of 1:4000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10862-1-AP (Endoglin/CD105 antibody) at dilution of 1:4000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-Endoglin/CD105 (IP:10862-1-AP, 3ug; Detection:10862-1-AP 1:300) with mouse lung tissue lysate 4000ug.