

For Research Use Only

# Endoglin/CD105 Polyclonal antibody

Catalog Number: 10862-1-AP

Featured Product

43 Publications



## Basic Information

### Catalog Number:

10862-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1287

### GenBank Accession Number:

BC014271

### GeneID (NCBI):

2022

### UNIPROT ID:

P17813

### Full Name:

endoglin

### Calculated MW:

71 kDa

### Observed MW:

75-90 kDa, 170-180 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:1000-1:4000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, bovine

**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**: HUVEC cells, HeLa cells, human placenta tissue, mouse lung tissue, rat lung tissue

**IP**: mouse lung tissue,

**IHC**: human breast cancer tissue, rat kidney tissue, human placenta tissue, human liver cancer 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- $\beta$ ) 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
Qian Huang	36210850	Front Pharmacol	WB,IHC
Yuri Miyakawa	36087522	Arch Oral Biol	IF
Tao Chen	34822812	Exp Cell Res	WB,IHC

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

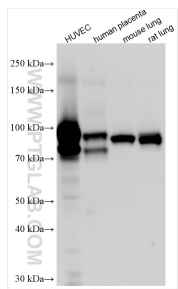
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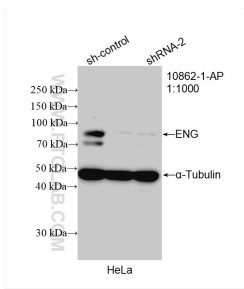
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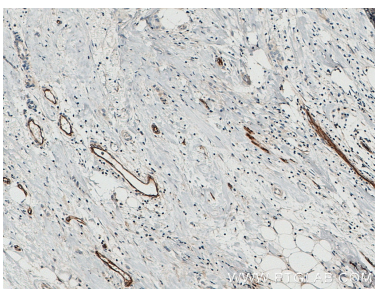
Selected Validation Data



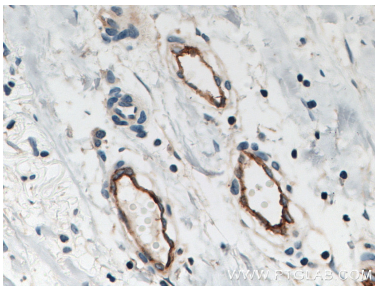
Various lysates were subjected to SDS PAGE followed by western blot with 10862-1-AP (Endoglin/CD105 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



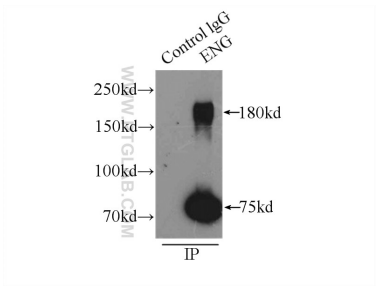
WB result of Endoglin/CD105 antibody (10862-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Endoglin/CD105 transfected HeLa cells.



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.