

For Research Use Only

# Endoglin/CD105 Polyclonal antibody

Catalog Number: 28117-1-AP

5 Publications



## Basic Information

### Catalog Number:

28117-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG27822

### GenBank Accession Number:

BC014271

### GeneID (NCBI):

2022

### UNIPROT ID:

P17813

### Full Name:

endoglin

### Calculated MW:

71 kDa

### Observed MW:

95 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:1000

IHC: 1:300-1:1200

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

IHC, IF

### Species Specificity:

Human

### Cited Species:

human

### Positive Controls:

WB: HUVEC cells, human placenta tissue

IHC: human liver cancer tissue, human renal cell carcinoma tissue, human breast cancer tissue, human placenta tissue

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

## 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
Eisei Endo	32493700	Mol Cancer Res	IHC
Xinyu Zhang	40073802	Transl Oncol	IF
Yupeng Zhao	38461905	Biochem Pharmacol	IF

## 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

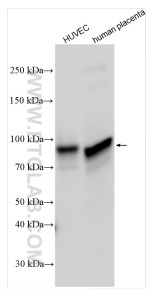
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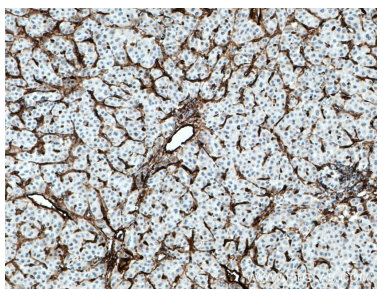
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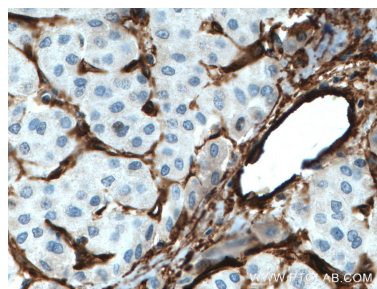
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28117-1-AP (Endoglin/CD105 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 28117-1-AP (Endoglin/CD105 antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 28117-1-AP (Endoglin/CD105 antibody) at dilution of 1:600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).