

For Research Use Only

Endoglin/CD105 Polyclonal antibody

Catalog Number: 10862-1-AP

Featured Product

47 Publications



Basic Information

Catalog Number:

10862-1-AP

Concentration:

500 ug/ml

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- 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 |
|---------------|-----------|-----------------|-------------|
| 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

For technical support and original validation data for this product please contact:

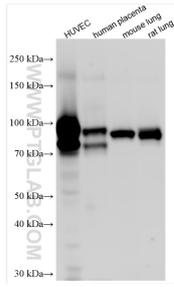
T: 4006900926

E: Proteintech-CN@ptglab.com

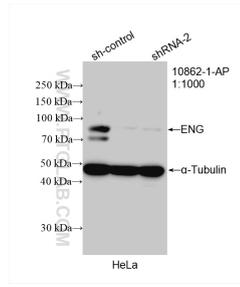
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

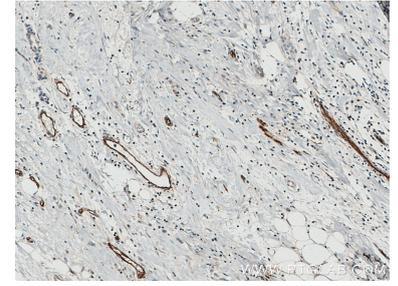
Selected Validation Data



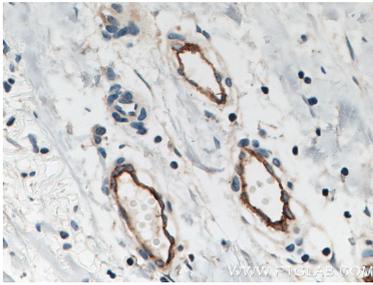
Various lysates were subjected to SDS PAGE followed by western blot with 10862-1-AP (Endoglin/CD105 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



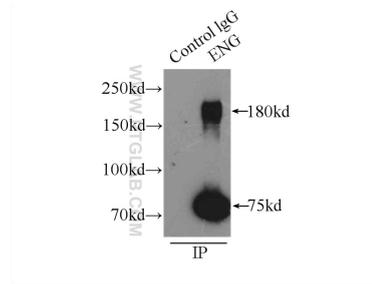
WB result of Endoglin/CD105 antibody (10862-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Endoglin/CD105 transfected HeLa cells.



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.