

For Research Use Only

Endoglin/CD105 Polyclonal antibody



Catalog Number: 10862-1-AP

14 Publications

Basic Information

Catalog Number: 10862-1-AP	GenBank Accession Number: BC014271	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2022	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
Source: Rabbit	Full Name: endoglin	
Isotype: IgG	Calculated MW: 71 kDa	
Immunogen Catalog Number: AG1287	Observed MW: 75-90 kDa, 170-180 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, WB	WB: human placenta tissue,
Species Specificity: human, mouse, rat	IP: mouse lung tissue,
Cited Species: Bovine, human, mouse, rat	IHC: human breast cancer tissue, human placenta tissue, rat kidney 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-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
Tao Chen	34822812	Exp Cell Res	WB,IHC
Xin-Xin Zhao	30460778	J Exp Zool B Mol Dev Evol	IF
Lidong Huang	35477157	Biomed Mater	IHC

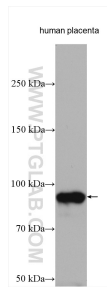
Storage

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

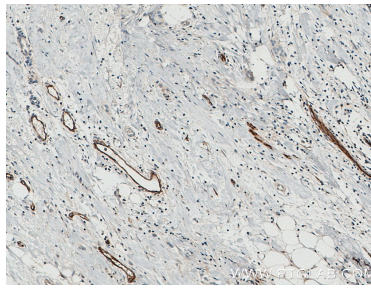
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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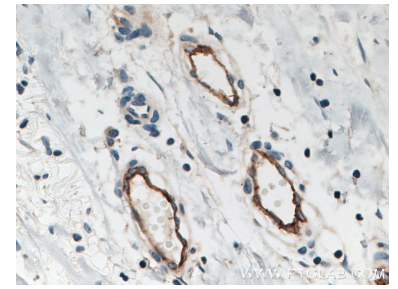
Selected Validation Data



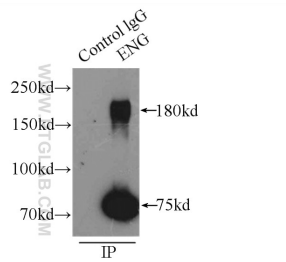
human placenta tissue was subjected to SDS PAGE followed by western blot with 10862-1-AP (Endoglin/CD105 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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.