

For Research Use Only

Endoglin/CD105 Monoclonal antibody

Catalog Number: 67075-1-Ig **7 Publications**



Basic Information

Catalog Number:

67075-1-Ig

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG27837

GenBank Accession Number:

BC014271

GeneID (NCBI):

2022

UNIPROT ID:

P17813

Full Name:

endoglin

Calculated MW:

71 kDa

Observed MW:

95-100 kDa

Purification Method:

Protein A purification

CloneNo.:

2D5E8

Recommended Dilutions:

WB: 1:5000-1:20000

IHC: 1:10000-1:40000

IF-P: 1:5000-1:20000

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

IHC, IF

Species Specificity:

human

Cited Species:

human, mouse, rat, sheep

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: HL-60 cells, HUVEC cells, human placenta tissue

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

IF-P: human tonsillitis tissue, human liver 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 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
Qing Zhang	35765095	Stem Cell Res Ther	IF
Baihe Han	35968497	Dis Markers	
Hou-Fu Xia	35916917	Cell Tissue Res	IHC,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

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

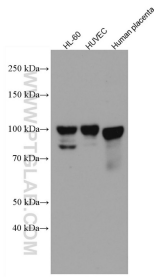
T: 4006900926

E: Proteintech-CN@ptglab.com

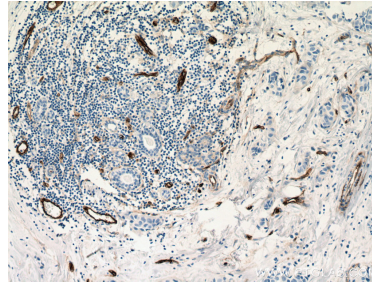
W: ptgcn.com

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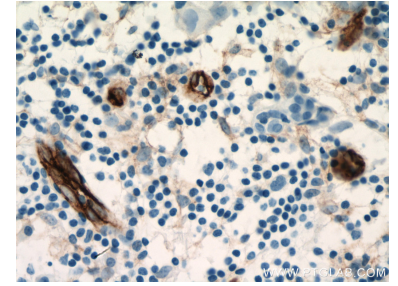
Selected Validation Data



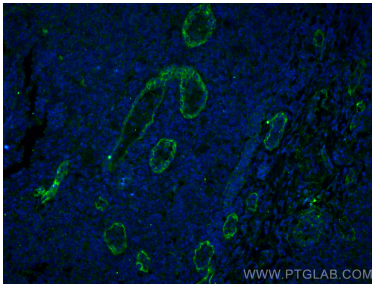
Various lysates were subjected to SDS PAGE followed by western blot with 67075-1-Ig (Endoglin/CD105 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



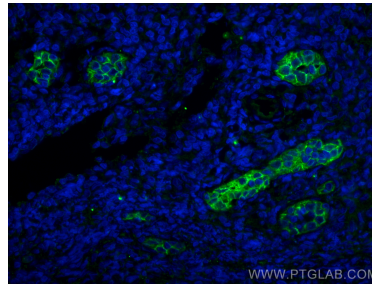
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67075-1-Ig (Endoglin/CD105 antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



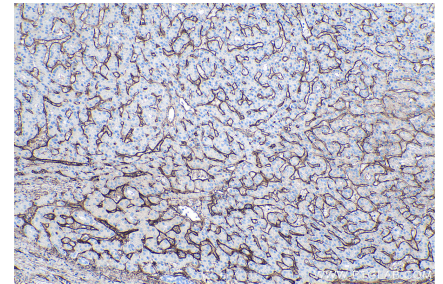
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67075-1-Ig (Endoglin/CD105 antibody) at dilution of 1:20000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



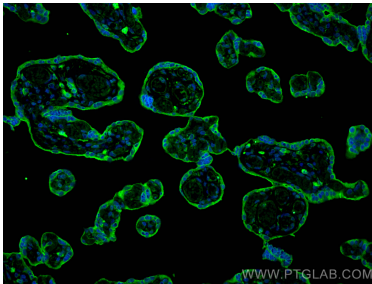
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using Endoglin/CD105 antibody (67075-1-Ig, Clone: 2D5E8) at dilution of 1:10000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using Endoglin/CD105 antibody (67075-1-Ig, Clone: 2D5E8) at dilution of 1:10000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67075-1-Ig (Endoglin/CD105 antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using Endoglin/CD105 antibody (67075-1-Ig, Clone: 2D5E8) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).