

CD105 Monoclonal Antibody (3A9)

Catalog Number MA5-17041

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Dilution * 1:10,000
Clone	3A9	Flow Cytometry (Flow)	1:200-1:400
Immunogen	Purified recombinant fragment of human CD105 expressed in E. Coli.	Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000
Conjugate	Unconjugated	Western Blot (WB)	1:500-1:2,000
Form	Liquid	Immunocytochemistry (ICC/IF)	1:200-1:1,000
Concentration	Conc. Not Determined	Published Applications	
Storage buffer	ascites	Immunohistochemistry (IHC)	See 1 publications below
Contains	0.03% sodium azide	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA5-17041 targets CD105 in indirect ELISA, FACS, ICC, IF, IHC, and WB applications and shows reactivity with Human samples. The MA5-17041 immunogen is purified recombinant fragment of human CD105 expressed in E. Coli. MA5-17041 detects CD105 which has a predicted molecular weight of approximately 71kDa.

Background/Target Information

CD105 or Endoglin is a Type I transmembrane protein, which is highly expressed on human vascular endothelial cells. It exists on an O- and N-glycosylated homodimer. Up regulation of endoglin expression has been demonstrated in tumor vasculature and proliferating cells, suggesting that it is a proliferation associated endothelial marker. CD105 binds to TGF beta 1 and 3 with high affinity but not to TGF beta 2.

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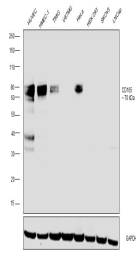
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Product Images For CD105 Monoclonal Antibody (3A9)

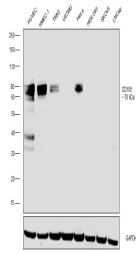
CD105 Antibody (MA5-17041)

Antibody specificity was demonstrated by detection of differential basal expression of the target across HUVEC, HMEC-1, T98G, U-87 MG, HeLa, HEK-293, SKOV-3, LNCaP owing to their inherent genetic constitution. Relative expression of CD105 was observed in observed only in HUVEC, HMEC-1, T98G and HeLa in copariosn to other cell lines using CD105 Monoclonal Antibody (3A9) (Product # MA5-17041) in Western Blot. {RE}



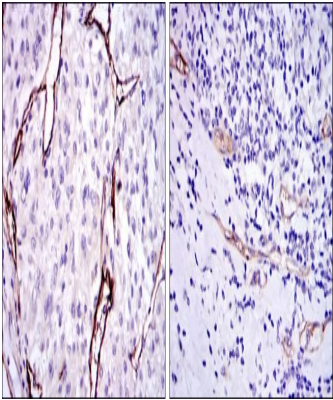
CD105 Antibody (MA5-17041) in WB

Western blot was performed using CD105 Monoclonal Antibody (3A9) (Product # MA5-17041) and a ~70 kDa band corresponding to CD105 was observed in HUVEC, HMEC-1, T98G and HeLa, as reported. Whole cell extracts (30 µg lysate) of HUVEC (Lane 1), HMEC-1 (Lane 2), T98G (Lane 3), U-87 MG (Lane 4), HeLa (Lane 5), HEK-293 (Lane 6), SK-O-V3 (Lane 7), LNCaP (Lane 8) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX), 10 well. Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:20,000) using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



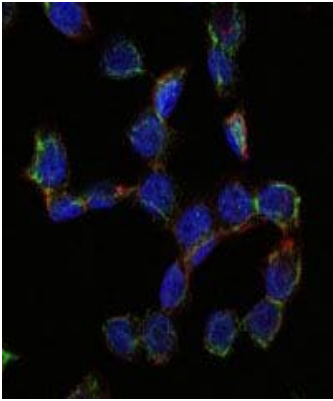
CD105 Antibody (MA5-17041) in IHC (P)

Immunohistochemical analysis of paraffin-embedded kidney cancer tissues (left) and stomach cancer tissues (right) using CD105/endoglin monoclonal antibody (Product # MA5-17041) followed with DAB staining.



CD105 Antibody (MA5-17041) in ICC/IF

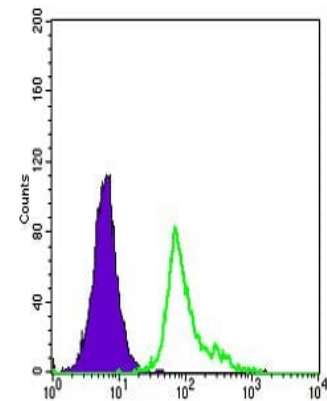
Immunofluorescence analysis of HepG2 cells using CD105/endoglin monoclonal antibody (Product # MA5-17041) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: actin filaments have been labeled with phalloidin.



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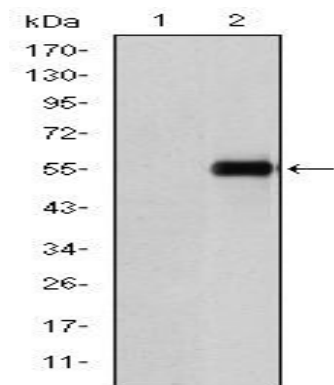
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CD105 Antibody (MA5-17041) in Flow

Flow cytometric analysis of HepG2 cells using CD105/endoglin monoclonal antibody (Product # MA5-17041) (green) and negative control (purple).



CD105 Antibody (MA5-17041) in WB

Western blot analysis of CD105/endoglin using CD105/endoglin monoclonal antibody (Product # MA5-17041) in HEK293 (1) and CD105 (AA: 331-567) human IgG Fc transfected HEK293 (2) cell lysate.

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PubMed References For CD105 Monoclonal Antibody (3A9)

1 Immunohistochemistry References

Species / Dilution	Summary
Human / 1:150	<p>MA5-17041 was used in immunohistochemistry to study the value of CD105, VEGF and sFLT1 in predicting the presence of metastases in endometrioid endometrial carcinoma</p> <p>Tumour biology : the journal of the International Society for Oncodevelopmental Biology and Medicine (2014; 35: 4651) "Endoglin, VEGF, and its receptors in predicting metastases in endometrial carcinoma." Author(s):Saarelainen SK,Staff S,Peltonen N,Lehtimäki T,Isola J,Kujala PM,Vuento MH,Mäenpää JU PubMed Article URL:http://dx.doi.org/10.1007/s13277-014-1609-6</p>

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