

**DATASHEET**

**CD105 Mouse Monoclonal Antibody(C2685)**

CAT. NO. AMA02297

**KEY FEATURES**

Target	CD105	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IHC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

**BACKGROUND**

Vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis . Required for normal structure and integrity of adult vasculature . Regulates the migration of vascular endothelial cells . Required for normal extraembryonic angiogenesis and for embryonic heart development . May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis . May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors . Acts as a TGF-beta coreceptor and is involved in the TGF-beta/BMP signaling cascade that ultimately leads to the activation of SMAD transcription factors .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:500
FC	1:100 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Mouse monoclonal to CD105
Specificity	Recognizes endogenous levels of CD105 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human CD105 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 71 kD; Observed: 72 kD kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	END; Endoglin; CD105
Gene Symbol	ENG
Entrez Gene	2022(Human)
SwissProt	P17813(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

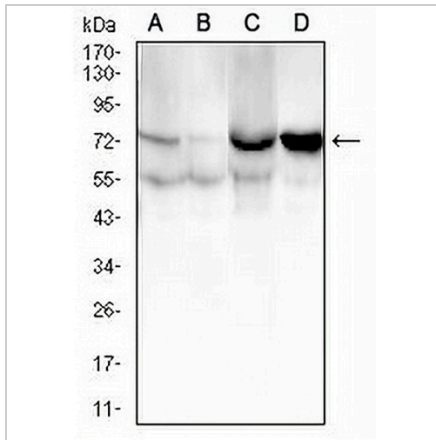
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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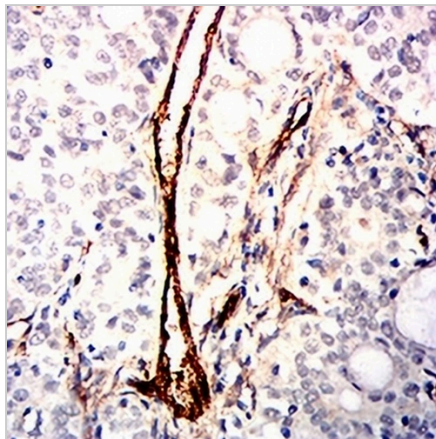
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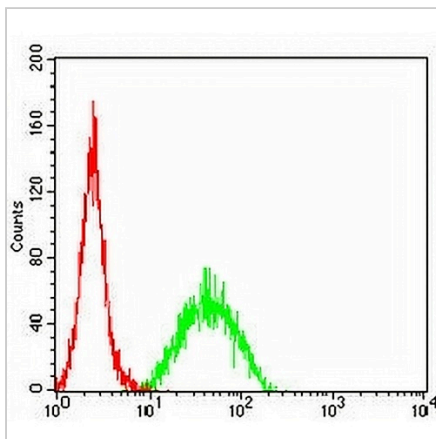
**DATA**



Western blot analysis of CD105 expression in HUVEC (A), HUVE12 (B), SHSY5Y (C), HEK293 (D) whole cell lysates. (Predicted band size: 71 kD; Observed band size: 72 kD)



Immunohistochemical analysis of CD105 staining in human cervical cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of THP1 cells using Anti-CD105 Antibody (green) and negative control (red).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.