

### Anti-CD105 antibody [3A9] ab114052

★★★★★ [1 Abreviews](#) [15 References](#) [6 Images](#)

#### Overview

<b>Product name</b>	Anti-CD105 antibody [3A9]
<b>Description</b>	Mouse monoclonal [3A9] to CD105
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF, Flow Cyt, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Purified recombinant fragment of Human CD105, expressed in E. coli.
<b>Positive control</b>	IHC-P: Human kidney cancer and stomach cancer tissues ICC/IF: HepG2 cells WB: CD105-hlgGfc transfected HEK293 cell lysate
<b>General notes</b>	<p>This product was changed from ascites to supernatant. Lot no's high than GR156609-14 are from Tissue Culture Supernatant</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituent: PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purified from tissue culture supernatant.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	3A9
<b>Isotype</b>	IgG1

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab114052 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 71 kDa.
IHC-P	★★★★★ (1)	1/200 - 1/1000.
ICC/IF		1/200 - 1/1000.
Flow Cyt		1/200 - 1/400. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ELISA		1/10000.

## Target

### Function

Major glycoprotein of vascular endothelium. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors.

### Tissue specificity

Endoglin is restricted to endothelial cells in all tissues except bone marrow.

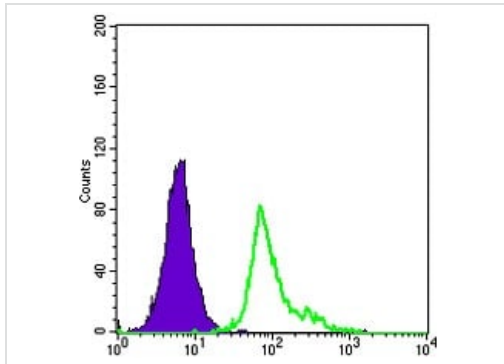
### Involvement in disease

Defects in ENG are the cause of hereditary hemorrhagic telangiectasia type 1 (HHT1) [MIM:187300, 108010]; also known as Osler-Rendu-Weber syndrome 1 (ORW1). HHT1 is an autosomal dominant multisystemic vascular dysplasia, characterized by recurrent epistaxis, muco-cutaneous telangiectases, gastro-intestinal hemorrhage, and pulmonary (PAVM), cerebral (CAVM) and hepatic arteriovenous malformations; all secondary manifestations of the underlying vascular dysplasia. Although the first symptom of HHT1 in children is generally nose bleed, there is an important clinical heterogeneity.

### Cellular localization

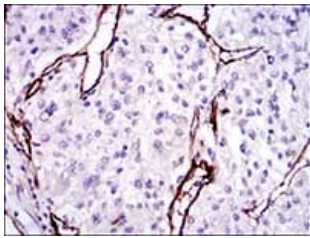
Membrane.

## Images



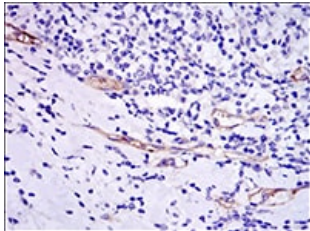
Flow Cytometry - Anti-CD105 antibody [3A9]  
(ab114052)

Flow cytometric analysis of CD105 in HepG2 cells, using ab114052 at a 1/200 dilution (green) and negative control (purple).



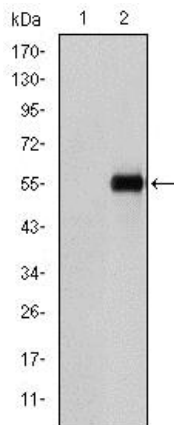
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD105 antibody [3A9]  
(ab114052)

ab114052, at a 1/200 dilution, staining CD105 in paraffin embedded Human kidney cancer tissue by Immunohistochemistry, with DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD105 antibody [3A9]  
(ab114052)

ab114052, at a 1/200 dilution, staining CD105 in paraffin embedded Human stomach cancer tissue by Immunohistochemistry, with DAB staining.



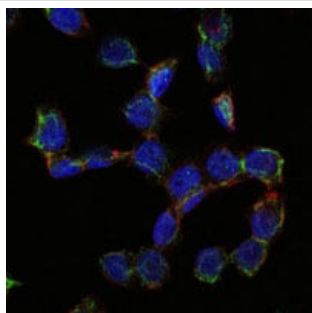
Western blot - Anti-CD105 antibody [3A9]  
(ab114052)

**All lanes :** Anti-CD105 antibody [3A9] (ab114052) at 1/500 dilution

**Lane 1 :** HEK293 cell lysate

**Lane 2 :** CD105-hlgGFc transfected HEK293 cell lysate

**Predicted band size:** 71 kDa

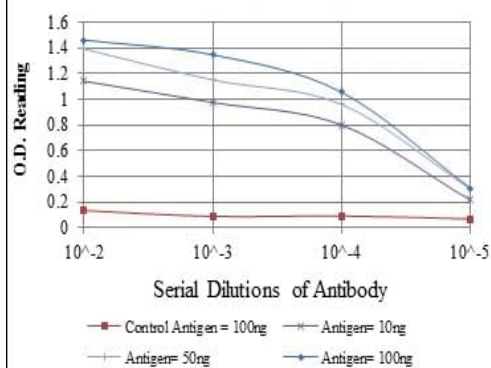


Immunocytochemistry/ Immunofluorescence - Anti-  
CD105 antibody [3A9] (ab114052)

ab114052, at a 1/200 dilution, staining CD105 in HepG2 cells by  
Immunofluorescence (green).

Blue: DRAQ5 fluorescent DNA dye.

Red: Actin filaments have been labeled with Alexa Fluor-555  
phalloidin.



ELISA - Anti-CD105 antibody [3A9] (ab114052)

ELISA using ab114052.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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