**Product datasheet**

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

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### Overview

**Product name**
Anti-CD105 antibody [3A9]

**Description**
Mouse monoclonal [3A9] to CD105

**Host species**
Mouse

**Tested applications**
Suitable for: WB, IHC-P, ICC/IF, Flow Cyt, ELISA

**Species reactivity**
Reacts with: Human

**Immunogen**
Purified recombinant fragment of Human CD105, expressed in E. coli.

**Positive control**
IHC-P: Human kidney cancer and stomach cancer tissues ICC/IF: HepG2 cells WB: CD105-hlgGFc transfected HEK293 cell lysate

**General notes**
This product was changed from ascites to supernatant. Lot no’s high than GR156609-14 are from Tissue Culture Supernatant

### Properties

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

**Storage buffer**
Preservative: 0.05% Sodium azide
Constituent: PBS

**Purity**
Protein G purified

**Purification notes**
Purified from tissue culture supernatant.

**Clonality**
Monoclonal

**Clone number**
3A9

**Isotype**
IgG1

### Applications

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.
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.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/200 - 1/1000.</td>
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<tr>
<td>ICC/IF</td>
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<tr>
<td>Flow Cyt</td>
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<td>1/200 - 1/400. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.</td>
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<tr>
<td>ELISA</td>
<td></td>
<td>1/10000.</td>
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Target

Flow cytometric analysis of CD105 in HepG2 cells, using ab114052 at a 1/200 dilution (green) and negative control (purple).
ab114052, at a 1/200 dilution, staining CD105 in paraffin embedded Human kidney cancer tissue by Immunohistochemistry, with DAB staining.

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

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

Lane 1: HEK293 cell lysate
Lane 2: CD105-hIgGFc 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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