

Product datasheet

Anti-CD105 antibody [2H6F11], prediluted (CF405M)  
 ab123634

1 Image

Overview

<b>Product name</b>	Anti-CD105 antibody [2H6F11], prediluted (CF405M)
<b>Description</b>	Mouse monoclonal [2H6F11] to CD105, prediluted (CF405M)
<b>Host species</b>	Mouse
<b>Conjugation</b>	CF405M. Ex: 408nm, Em: 452nm
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Human Endoglin fusion protein.
<b>Positive control</b>	Nalm-6 cell line
<b>General notes</b>	

CD105 is a component of the TGF-B receptor system and can bind TGF-B1 and TGF-B3 with high affinity but does not bind TGF-B2. CD105 is expressed by vascular endothelial cells and syncytiotrophoblasts of placenta, Pre-B cells in fetal marrow, erythroid precursors in fetal and adult bone marrow and is weakly expressed by stromal fibroblasts. U937 cells and monocytes and tissue macrophages also expresses weakly CD105. Expression of CD105 is increased on activated endothelium in tissues undergoing angiogenesis, such as in tumours, or in cases of wound healing or dermal inflammation.

CF405M (Abs/Em Max: 408/450nm). Direct replacement for Pacific Blue dye®, BD Horizon™ V450.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.09% Sodium azide
<b>Purity</b>	Immunogen affinity purified
<b>Primary antibody notes</b>	CD105 is a component of the TGF-B receptor system and can bind TGF-B1 and TGF-B3 with high affinity but does not bind TGF-B2. CD105 is expressed by vascular endothelial cells and syncytiotrophoblasts of placenta, Pre-B cells in fetal marrow, erythroid precursors in fetal and adult bone marrow and is weakly expressed by stromal fibroblasts. U937 cells and monocytes

and tissue macrophages also expresses weakly CD105. Expression of CD105 is increased on activated endothelium in tissues undergoing angiogenesis, such as in tumours, or in cases of wound healing or dermal inflammation.

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	2H6F11
<b>Isotype</b>	IgG1

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab123634** 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
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use 5µl for 10 <sup>6</sup> cells. <a href="#">ab126026</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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## Target

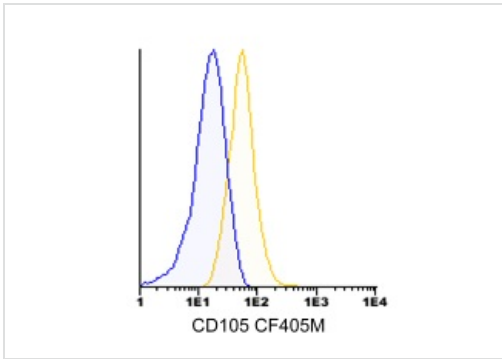
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<b>Function</b>	Major glycoprotein of vascular endothelium. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors.
<b>Tissue specificity</b>	Endoglin is restricted to endothelial cells in all tissues except bone marrow.
<b>Involvement in disease</b>	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.
<b>Cellular localization</b>	Membrane.

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## Images

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Staining of Nalm-6 cell line with ab123634 at 5  $\mu\text{l}/10^6$  cells and isotype control IgG1 CFBlue. Total cells were used for analysis.

Flow Cytometry - Anti-CD105 antibody [2H6F11], prediluted (CF405M) (ab123634)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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