abcam

Product datasheet

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

1 Image

Overview

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

General notes

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

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide
Purity	Immunogen affinity purified
Primary antibody notes	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.

Clonality	Monoclonal
Clone number	2H6F11
Isotype	IgG1

Applications

Our Abpromise guarantee covers the use of **ab123634** in the following tested applications.

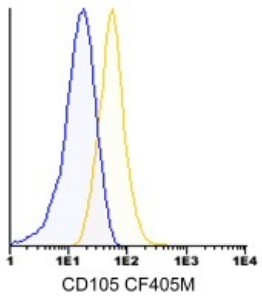
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use 5µl for 10^6 cells. ab126026-Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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.

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



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

Staining of Nalm-6 cell line with ab123634 at 5 µl/10^6 cells and isotype control IgG1 CFBlue.

Total cells were used for analysis.

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