abcam

Product datasheet

Anti-CD105 antibody [MEM-226] ab2529

5 References 4 Images

Overview

Product name	Anti-CD105 antibody [MEM-226]
Description	Mouse monoclonal [MEM-226] to CD105
Specificity	This antibody recognises CD105 antigen.
Tested applications	**Suitable for:** ICC/IF, Sandwich ELISA, Flow Cyt, IP, WB
Species reactivity	**Reacts with:** Rat, Human
Immunogen	Recombinant full length protein (Human). Expressed in vaccinia virus containing CD105 cDNA.
Positive control	ICC/IF: HeLa cells.
General notes	Abcam is committed to meeting high standards of ethical manufacturing and as such, we will be discontinuing this product, which has been generated by the ascites method, within the next year. We are sorry for any inconvenience this may cause.We would recommend antibody ab11414 as a replacement.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: PBS, pH 7.4
Purity	>95% by SDS-PAGE
Clonality	Monoclonal
Clone number	MEM-226
Isotype	IgG1

Applications

Our Abpromise guarantee covers the use of **ab2529** 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 a concentration of 10 µg/ml.
Sandwich ELISA		Use a concentration of 5 µg/ml. Can be paired for Sandwich ELISA with Rabbit polyclonal to CD105 (ab21224). For sandwich ELISA, use this antibody as Capture at 5 µg/ml with Rabbit polyclonal to CD105 (ab21224) as Detection.
Flow Cyt		Use a concentration of 1 - 2 µg/ml. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Use under non reducing condition.

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.

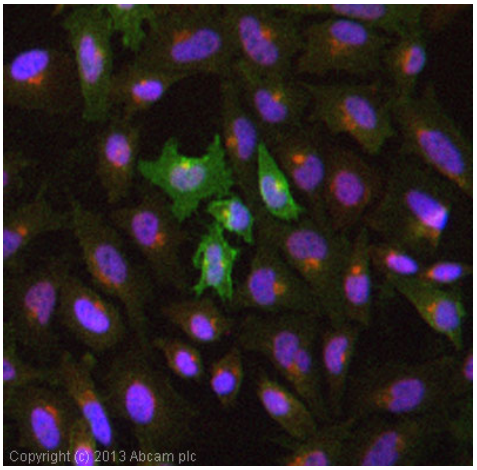
Involvement in disease

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

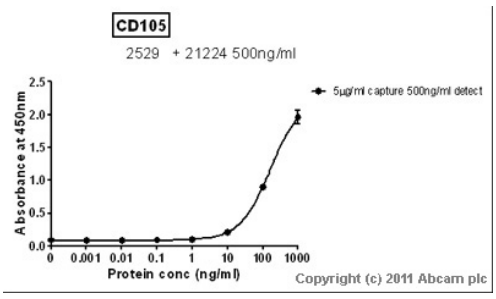
Membrane.

Images



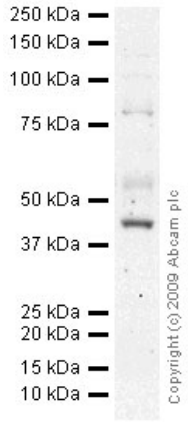
Immunocytochemistry/ Immunofluorescence - Anti-CD105 antibody [MEM-226] (ab2529)

ICC/IF image of ab2529 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab2529, 10µg/ml) overnight at +4°C. The secondary antibody (green) was ab69879, DyLight® 488 goat anti-mouse IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Sandwich ELISA - Anti-CD105 antibody [MEM-226] (ab2529)

Standard Curve for CD105 (Analyte: CD105 protein (ab54338)); dilution range 1pg/ml to 1ug/ml using Capture Antibody Mouse monoclonal [MEM-226] to CD105 (ab2529) at 5ug/ml and Detector Antibody Rabbit polyclonal to CD105 (ab21224) at 0.5ug/ml.



Western blot - Anti-CD105 antibody [MEM-226] (ab2529)

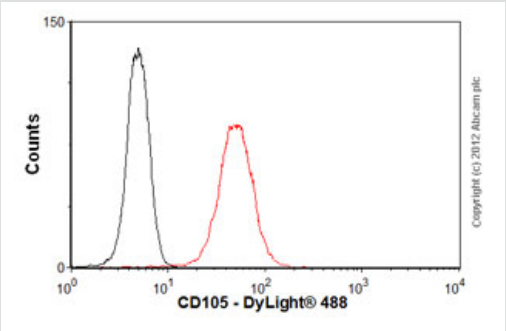
Anti-CD105 antibody [MEM-226] (ab2529) at 5 µg/ml + Human colon tissue lysate - total protein (ab30051) at 10 µg

Secondary

Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Observed band size : 80 kDa

Additional bands at : 45 kDa,55 kDa. We are unsure as to the identity of these extra bands.



Flow Cytometry - Anti-CD105 antibody [MEM-226] (ab2529)

Overlay histogram showing U937 cells stained with ab2529 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab2529, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in U937 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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