abcam

Product datasheet

Anti-CD105 antibody [MEM-229] ab69772

12 References 2 Images

Overview

Product name	Anti-CD105 antibody [MEM-229]
Description	Mouse monoclonal [MEM-229] to CD105
Host species	Mouse
Tested applications	**Suitable for:** IHC-Fr, ICC/IF
Species reactivity	**Reacts with:** Human, Pig
Immunogen	Tissue, cells or virus corresponding to Human CD105. Recombinant Vaccinia virus containing the human CD105 (L-isoform) cDNA
Positive control	Kg1 human acute myelogenous leukemia cell line. This antibody gave a positive result when used in the following formaldehyde fixed cell lines: HeLa.
General notes	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. 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&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	Purified from TCS
Clonality	Monoclonal
Clone number	MEM-229
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab69772 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
IHC-Fr		1/200. Fix with Acetone.
ICC/IF		Use at an assay dependent concentration.

Target

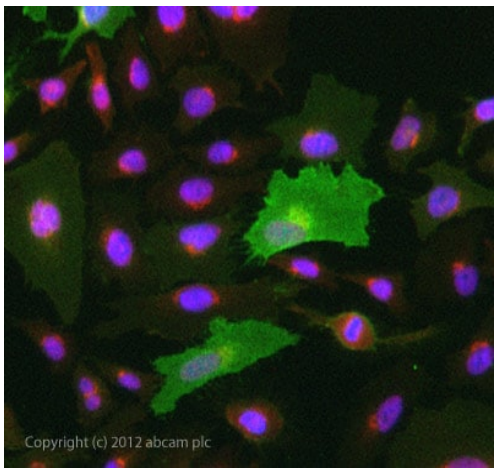
Function Major glycoprotein of vascular endothelium. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors.

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.

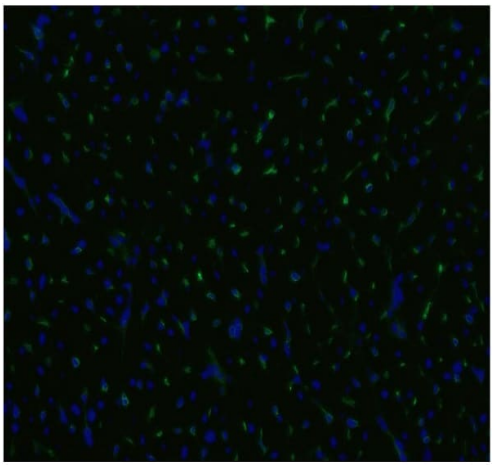
Cellular localization Membrane.

Images



Immunocytochemistry/ Immunofluorescence - Anti-CD105 antibody [MEM-229] (ab69772)

ab69772 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 ab69772 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti-mouse (**ab96879**) 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.



Immunohistochemistry (Frozen sections) - Anti-CD105 antibody [MEM-229] (ab69772)

Immunohistochemical analysis of frozen infarcted porcine heart labelling CD105 (green) with ab69772 at 5µg/mL. DAPI (blue) was used as nuclear counterstain.

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