abcam

Product datasheet

Anti-CD105 antibody [MEM-229] (Phycoerythrin) ab53321

6 References 1 Image

Overview

Product name	Anti-CD105 antibody [MEM-229] (Phycoerythrin)
Description	Mouse monoclonal [MEM-229] to CD105 (Phycoerythrin)
Conjugation	Phycoerythrin. Ex: 488nm, Em: 575nm
Tested applications	**Suitable for:** WB, IHC-Fr, ICC, Flow Cyt
Species reactivity	**Reacts with:** Human, Pig
Immunogen	Recombinant vaccinia virus containing human CD105 (L-isoform) cDNA

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: 0.2% BSA, PBS
Purity	Size exclusion
Clonality	Monoclonal
Clone number	MEM-229
Isotype	IgG2a

Applications

Our Abpromise guarantee covers the use of **ab53321** 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
WB		Use at an assay dependent concentration. Use under non reducing condition. Predicted molecular weight: 71 kDa.
IHC-Fr		1/200. Fix with acetone.

Application	Abreviews	Notes
ICC		Use at an assay dependent concentration.
Flow Cyt		Use 20µl for 10^6 cells. (or 100µl of whole blood). ab91363-Mouse monoclonal IgG2a, 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.

Images

Immunocytochemistry/ Immunofluorescence - CD105 antibody [MEM-229] (FITC) (ab53318)

ab53318 staining CD105 in infarcted porcine heart by Immunohistochemistry (Frozen sections). Cell nuclei were counterstained blue with DAPI.

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