**Product name**  
FITC Anti-CD105 antibody [MEM-229]  

**Description**  
FITC Mouse monoclonal [MEM-229] to CD105  

**Host species**  
Mouse  

**Conjugation**  
FITC. Ex: 493nm, Em: 528nm  

**Specificity**  
The antibody MEM-229 recognizes an extracellular epitope of CD105 (Endoglin), a 90 kDa type I integral membrane homodimer glycoprotein expressed on vascular endothelial cells (small and large vessels), activated monocytes and tissue macrophages, stromal cells of certain tissues including bone marrow, pre-B lymphocytes in fetal marrow and erythroid precursors in fetal and adult bone marrow; it is also present on syncytiotrophoblast on placenta throughout pregnancy.  

**Tested applications**  
Suitable for: IHC-Fr  

**Species reactivity**  
Reacts with: Pig  

**Immunogen**  
Recombinant full length protein corresponding to Human CD105.  
Database link: P17813  

**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  

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<tr>
<th>Properties</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C.</td>
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<tr>
<td><strong>Storage buffer</strong></td>
<td>pH: 7.4</td>
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<tr>
<td></td>
<td>Preservative: 0.097% Sodium azide</td>
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<tr>
<td></td>
<td>Constituents: 0.2% BSA, PBS</td>
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<tr>
<td><strong>Purity</strong></td>
<td>Size exclusion</td>
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<tr>
<td><strong>Purification notes</strong></td>
<td>Purified by size-exclusion chromatography.</td>
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</tbody>
</table>
Clonality: Monoclonal
Clone number: MEM-229
Isotype: IgG2a

Applications

The Abpromise guarantee covers the use of ab53318 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
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<tr>
<td>IHC-Fr</td>
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<td>1/200. Fix with acetone.</td>
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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

ab53318 staining CD105 in infarcted porcine heart by Immunohistochemistry (Frozen sections). Cell nuclei were counterstained blue with DAPI.
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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