abcam

Product datasheet

Anti-CD105 antibody [MJ7/18] ab81456

重组

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概述

产品名称	Anti-CD105抗体[MJ7/18]
描述	**大鼠单克隆抗体**[MJ7/18] to CD105
宿主	Rat
经测试应用	**适用于:** IHC-Fr, IP, Flow Cyt, WB
种属反应性	**与反应:** Mouse
免疫原	Tissue, cells or virus corresponding to Mouse CD105. Inflamed mouse skin
阳性对照	WB: Mouse lung and liver tissue lysates Flow Cyt: bEND.3
常规说明	This product was switched from a hybridoma to a recombinant production format on 27th October 2021. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Ion Exchange Chromatography
克隆	单克隆
克隆编号	MJ7/18
同种型	IgG2a

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab81456于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-Fr		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Flow Cyt		1/10 - 1/20. **ab18450** - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody. 1/10 - 1/20. Use 10ul of the suggested working dilution to label $1x10^6$ cells in 100ul.
WB		Use at an assay dependent concentration. Predicted molecular weight: 70 kDa.

靶标

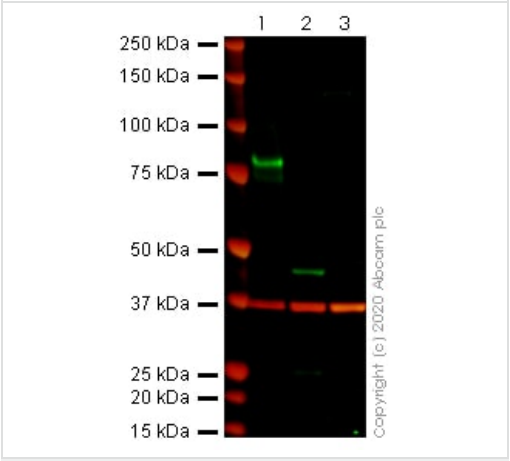
功能 Major glycoprotein of vascular endothelium. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors.

组织特异性 Endoglin is restricted to endothelial cells in all tissues except bone marrow.

疾病相关 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.

细胞定位 Membrane.

图片



Western blot - Anti-CD105 antibody [MJ7/18] (ab81456)

All lanes : Anti-CD105 antibody [MJ7/18] (ab81456) at 5 µg/ml

Lane 1 : Mouse Lung tissue lysate with 3% Milk
Lane 2 : Mouse Liver tissue lysate with 3% Milk
Lane 3 : NIH/3T3 whole cell lysate with 3% Milk

Lysates/proteins at 40 µg per lane.

Secondary
All lanes : Rabbit monoclonal [EPR16891] to GAPDH - Loading Control (**ab181602**)

Predicted band size: 70 kDa
Observed band size: 80 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab81456 observed at 80 kDa. Red - loading control **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) observed at 37 kDa.

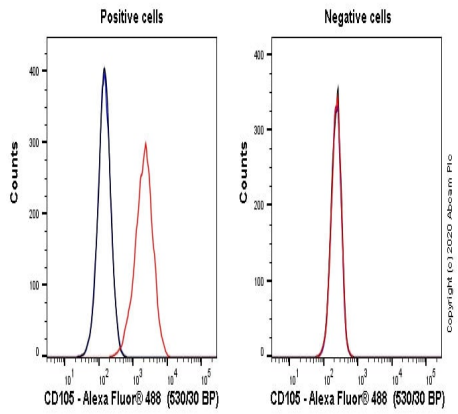
ab81456 was shown to react with CD105 in Western blot.

Membranes were blocked in 3% milk before incubation with ab81456 and **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) overnight at 4 °C at 5 µg/ml and a 1 in 20000 dilution respectively.

Blots were incubated with Goat anti-Rat IgG H&L (IRDye® 800CW) preabsorbed (**ab253031**) and Goat anti-Rabbit IgG H&L (IRDye$®$ 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.

Additional band(s) were observed at 45 kDa, these band(s) may represent alternative splice variants. This has not been investigated further.

Lane 1: Mouse Lung tissue lysate (40 µg)
Lane 2: Mouse Liver tissue lysate (40 µg)
Lane 3: NIH/3T3 whole cell lysate (40 µg)



Flow Cytometry - Anti-CD105 antibody [MJ7/18] (ab81456)

Flow cytometry overlay histogram showing left bEND.3 positive cells and right negative NIH3T3 cells stained with ab81456 (red line). The cells were incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab81456) ($1x10^6$ in 100 µl at 1 µg/ml) for 30 min on ice.

The secondary antibody Goat anti-rat IgG H&L (Alexa Fluor® 488, pre-adsorbed) (**ab150165**) was used at 1/2000 for 30 min on ice.

Isotype control antibody (black line) was Rat IgG2aκ (**ab18450**) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter.

Anti-CD105 antibody [MJ7/18] (ab81456)

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