

Product datasheet

Anti-CD105 antibody [OT18A1] ab156756

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Overview

Product name	Anti-CD105 antibody [OT18A1]
Description	Mouse monoclonal [OT18A1] to CD105
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt (Intra)
Species reactivity	Reacts with: Mouse, Rat, Dog, Human, African green monkey
Immunogen	Recombinant full length protein corresponding to Human CD105.
Positive control	WB: HepG2, HeLa, SVT2, A549, COS7, Jurkat, MDCK, PC12, and MCF7 cell lysates. IF: HeLa cells. Flow Cyt (Intra): U937 cells.
General notes	<p>The clone number has been updated from 8A1 to OT18A1, both clone numbers name the same clone.</p> <p>This product was changed from ascites to tissue culture supernatant on 29th May 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>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.</p> <p>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</p>

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: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 1% BSA, 50% Glycerol
Purity	Immunogen affinity purified
Purification notes	ab156756 is purified from TCS by affinity chromatography.

Clonality	Monoclonal
Clone number	OT18A1
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab156756 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		1/200 - 1/4000. Predicted molecular weight: 70 kDa.
ICC/IF		1/100.
Flow Cyt (Intra)		1/1000. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

Target

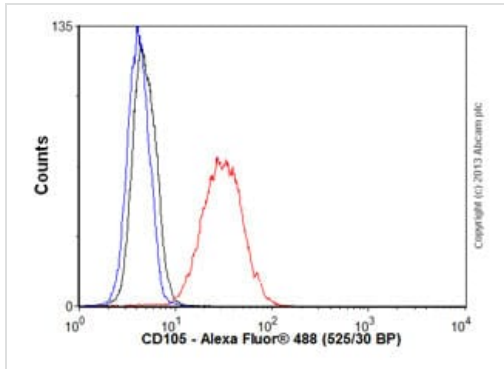
Function Major glycoprotein of vascular endothelium. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors.

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.

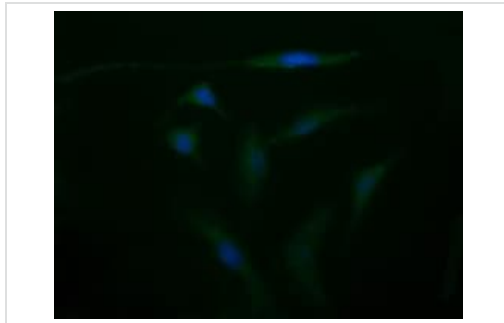
Cellular localization Membrane.

Images



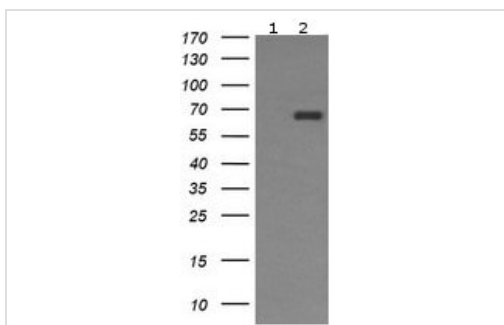
Flow Cytometry (Intracellular) - Anti-CD105 antibody [OT18A1] (ab156756)

Overlay histogram showing U937 cells stained with ab156756 (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 (ab156756, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) ([ab150113](#)) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] ([ab91366](#), 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. 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.



Immunocytochemistry/ Immunofluorescence - Anti-CD105 antibody [OT18A1] (ab156756)

Immunofluorescent analysis of HeLa cells labeling CHN1 with ab156756 at 1/100.



Western blot - Anti-CD105 antibody [OT18A1] (ab156756)

All lanes : Anti-CD105 antibody [OT18A1] (ab156756) at 1/200 dilution

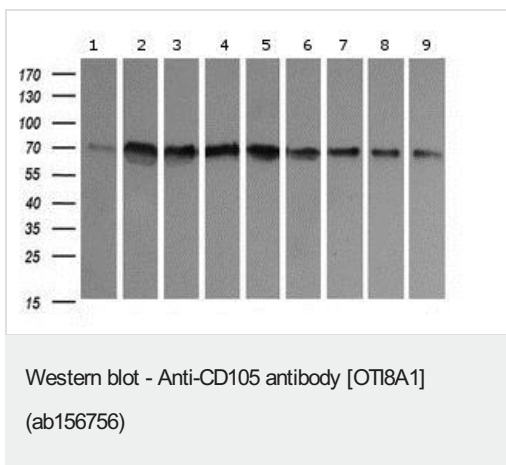
Lane 1 : HEK293T cells transfected with pCMV6-ENTRY control

Lane 2 : HEK293T cells transfected with pCMV6-ENTRY CD105

Lysates/proteins at 5 µg per lane.

Predicted band size: 70 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC211854)



All lanes : Anti-CD105 antibody [OT18A1] (ab156756) at 1/200 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : SVT2 cell lysate

Lane 4 : A549 cell lysate

Lane 5 : COS7 cell lysate

Lane 6 : Jurkat cell lysate

Lane 7 : MDCK cell lysate

Lane 8 : PC12 cell lysate

Lane 9 : MCF7 cell lysate

Lysates/proteins at 35 µg per lane.

Predicted band size: 70 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC211696)

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