

Mouse CD105 Monoclonal Antibody | anti-CD105 antibody

MOUSE ANTI HUMAN CD105:RPE

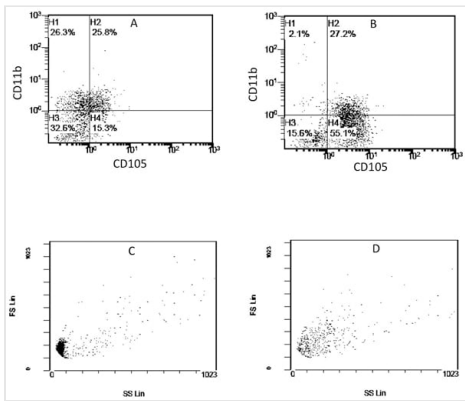
CATALOG # AAA12084	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD105; Monoclonal Antibody; MOUSE ANTI HUMAN CD105:RPE; anti-CD105 antibody

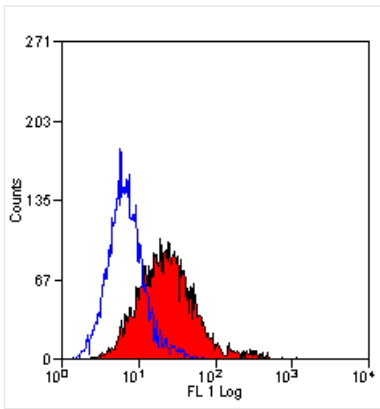
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	SN6
Form/Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
Sequence Length	625
Applicable Applications for anti-CD105 antibody	FCM/FACS (Flow Cytometry)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. Flow Cytometry: Maximum Dilution: Neat
Reconstitution	Reconstitute in 0.25 ml distilled water Preservative Stabilisers
Immunogen	Partially purified cell membrane antigens from fresh leukaemia cells. Fusion Partners
Target Species	Human
Preparation and Storage	Prior to reconstitution store at 4 degree C. Following reconstitution store at 4 degree C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 12 months from date of reconstitution.



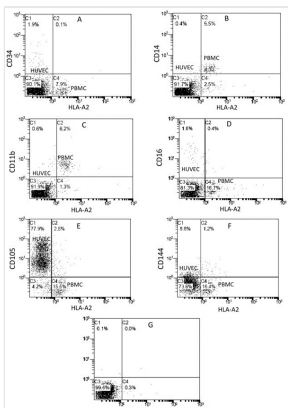
Application Data

Published customer image: Mouse anti Human CD105 antibody, clone SN6 used for flow cytometry. Image caption: Phenotype change from HLA-A2+/CD11b+/CD105- to HLA-A2+/CD11b-/CD105+ on endothelium-adherent blood monocyte-derived cells with increase in size and granularity during co-culture. HLA-A2+ PBMCs (1x10⁶ cells/well) were incubated for 2 h (Day 0) with HLA-A2- HUVECs, after which the non-adherent cells were removed by washing. The cell layers were analysed by three-colour flow cytometry staining for HLA-A2, CD11b and CD105 on (A) Day 1 and (B) Day 2. These plots were gated for HLA-A2+ cells. Forward scatter/side scatter dot plots gated for HLA-A2+ cells on Day 0 (C) and Day 2 (D) was shown. These are representative of 2 individual experiments. From: Tso C, Rye K-A, Barter P (2012) Phenotypic and Functional Changes in Blood Monocytes Following Adherence to Endothelium. PLoS ONE 7(5): e37091.



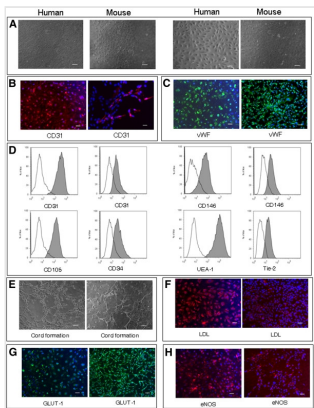
Application Data

Staining of KG1 cells with Mouse anti Human CD105:FITC



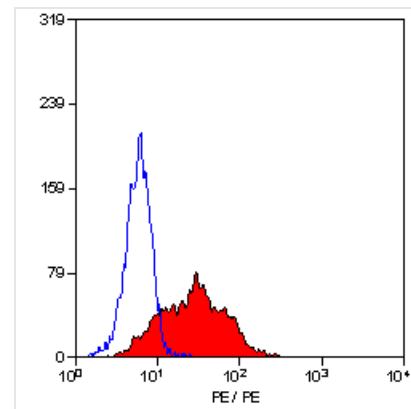
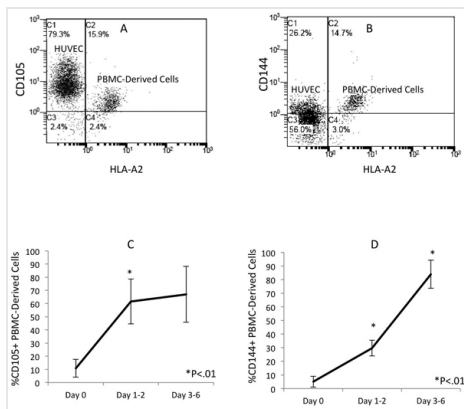
Application Data

Published customer image: Mouse anti Human CD105 antibody, clone SN6 used for flow cytometry. Image caption: Endothelial adherence of blood monocytes. PBMCs were isolated from HLA-A2+ donors and incubated with HLA-A2- HUVECs (1x10⁶ cells/well) for 2 h, after which the non-adherent PBMCs were removed by washing. The co-cultured cell layers were immediately analysed with dual-colour flow cytometry for HLA-A2 and (A) CD34, (B) CD14, (C) CD11b, (D) CD16, (E) CD105 and (F) CD144 expression. Representative plots from 4 -6 individual experiments are shown. (G) Two parameters dot plot showing typical isotype controls. From: Tso C, Rye K-A, Barter P (2012) Phenotypic and Functional Changes in Blood Monocytes Following Adherence to Endothelium. PLoS ONE 7(5): e37091.



Application Data

Published customer image: Mouse anti Human CD105 antibody, clone SN6 used for flow cytometry on brain microvascular endothelial cells. Image caption: Characterization and functional features of human and murine BMVECs. (A) Phase contrast micrographs of confluent monolayers of human (left image) and murine (right image) BMVECs. BMVECs present the typical cobblestone appearance. Scale bar, 100 um and 200 um for human BMVECs and murine BMVECs. (B) Human (left image) and murine (right image) BMVECs showed a clear cytoplasmic staining for CD31. Scale bar, 50 um. (C) Human (left image) and murine (right image) cells displayed an intense positive immunofluorescence for vWf. Scale bar, 50 um. (D) Flow cytometric analysis of BMVECs. Human BMVECs resulted positive (gray histograms) for CD31 (left graph), CD105, CD146 (left graph), UEA-1 staining; murine BMVECs resulted positive for CD31 (right graph), CD34, CD146 (right graph) and Tie-2 staining. White histograms represent the isotype controls of each antibody. (E) Capillary tube-like structure produced by human (left image) and murine (right image) BMVECs, 7 h after plating onto Matrigel. Scale bar, 100 um. (F) LDL-uptake assay on human (left image) and murine (right image) BMVECs. Scale bar, 50 um. (G) Human (left image) and murine (right image) BMVECs were labelled for GLUT-1. Scale bar, 50 um. (H) Immunofluorescence for eNOS in human (left image) and murine (right image) BMVECs. Scale bar, 50 um. All nuclei were counterstained with DAPI (blue). One representative of three independent experiments performed in blind is shown for each figure. From: Navone SE, Marfia G, Nava S, Invernici G, Cristini S, Balbi S, Sangiorgi S, Ciusani E, Bosutti A, Alessandri G, Slevin M, Parati EA. Human and mouse brain-derived endothelial cells require high levels of growth factors medium for their isolation, in vitro maintenance and survival. Vasc Cell. 2013 May 14;5(1):10.



Application Data

Published customer image: Mouse anti Human CD105 antibody, clone SN6 used for flow cytometry. Image caption: Increased expression of CD105 and CD144 in the endothelium-adherent monocytes during co-culture. HLA-A2+ PBMCs (1x10⁶ cells/well) were incubated for 2 h (Day 0) with HLA-A2- HUVECs, after which the non-adherent cells were removed by washing. The cell layers were maintained in co-culture up to Day 6, then assessed by dual-colour flow cytometry for HLA-A2 and (A) CD105 and (B) CD144 expression on Day 3 of co-culture. Representative plots from 4 -7 individual experiments are shown. The increase in CD105 from Day 0 to Day 6 (C) and CD144 expression from Day 0 to Day 6 (D) is also shown. From: Tso C, Rye K-A, Barter P (2012) Phenotypic and Functional Changes in Blood Monocytes Following Adherence to Endothelium. PLoS ONE 7(5): e37091.

Application Data

Staining of KG1 cells with Mouse anti Human CD105RPE

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557555
NCBI GeneID	2022
NCBI Accession #	NP_000109.1
NCBI GenBank Nucleotide #	NM_000118.3
Molecular Weight	67,542 Da
NCBI Official Full Name	endoglin isoform 2
NCBI Official Synonym Full Names	endoglin
NCBI Official Symbol	ENG
NCBI Official Synonym Symbols	END; HHT1; ORW1
NCBI Protein Information	endoglin; CD105 antigen
UniProt Protein Name	Endoglin
UniProt Gene Name	ENG
UniProt Synonym Gene Names	END
UniProt Entry Name	EGLN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd105-antibody-clone-sn6-flow-cytometry-elisa/12084>