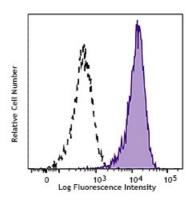
Product Data Sheet

PE/Cy5 anti-mouse CD105

1202155/25μg	
MJ7/18	
Rat IgG2a, к	
Inflamed mouse skin	
Mouse	
The antibody was purified by affinity chromatography and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.	
Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	В
0.2 mg/mL	s №
	MJ7/18 Rat IgG2a, κ Inflamed mouse skin Mouse The antibody was purified by affinity chromatography and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody. Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.



BEND.3 mouse endothelial cells stained with CD105 (clone MJ7/18) PE/Cy5 (filled histogram) or rat IgG2a, κ PE/Cy5 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is $\leq 0.5 \ \mu$ g per million cells in 100 μ L volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications include: immunoprecipitation, Western blotting, and immunofluorescence histochemistry or immunohistochemistry of acetone-fixed frozen sections ²⁻⁴ .
Application References:	 Ge AZ and Butcher EC. 1994. Gene 138:201. Baluk P, et al. 2003. Am. J. Pathol. 163:1801. (IHC) Takahashi T, et al. 2003. Mol. Cell Biol. 23:1817. (IHC) Savinov AY, et al. 2003. J. Exp. Med. 197:643. (IHC)

Description: CD105 is a 90 kD homodimeric type I integral membrane glycoprotein, also known as endoglin. It is expressed on endothelial cells (especially on angiogenic endothelial cells) and upregulated by hypoxia, activated monocytes, macrophages, bone marrow stromal cells, and some cytotrophoblasts. CD105 is a receptor for TGF- β 1, TGF- β 3 and modulates TGF- β signaling by interacting with TGF- β receptors I and/or II. CD105 also binds other growth factors such as actvin A, BMP-2, and BMP-7. CD105 has been show to be a useful marker for identifying proliferating endothelium involved in tumor angiogenesis and can be used for tumor imaging and prognosis, and has therapeutic potential for some solid tumors and other angiogenic diseases.

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