SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-mouse CD105

Catalog # / Size: 1202075 / 25 µg
1202080 / 100 µg

Clone: MJ7/18

Isotype: Rat IgG2a, κ

Immunogen: inflamed mouse skin

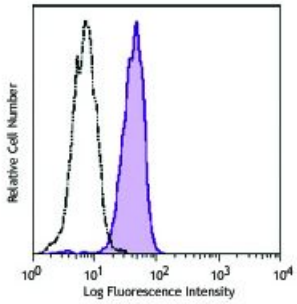
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy5.5 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: 750 under optimal conditions.

Concentration: 0.2



Mouse endothelial cells bEnd.3 were stained with CD105 (clone MJ7/18) PerCP/Cy5.5 (filled histogram) or rat IgG2a, κPerCP/Cy5.5 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 ≤1.0 µg per million cells in 100 µl 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:

1. Ge AZ and Butcher EC. 1994. *Gene* 138:201.
2. Baluk P, *et al.* 2003. *Am. J. Pathol.* 163:1801. (IHC)
3. Takahashi T, *et al.* 2003. *Mol. Cell Biol.* 23:1817. (IHC)
4. 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-β1, TGF-β3 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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Antigen References:

1. Gougos A and M. Letarte 1988. *J. Immunol.* 141:1925.
2. Cheifetz S, *et al.* 1992. *J. Bio. Chem.* 267:19027.
3. Barbara NP, *et al.* 1999. *J. Bio. Chem.* 274:584.
4. Lastres P, *et al.* 1992. *Eur. J. Immunol.* 22:393.
5. Duff S, *et al.* 2003. *FASEB J.* 17:984.
6. Warrington K, *et al.* 2005. *Anticancer Res.* 25:185.

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