biogems
Enabling Science through Innovation

Technical Data Sheet

Anti-Mouse CD105 (Endoglin) PE

Catalog Number :12612-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: MJ7/18

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Rat IgG2a, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The MJ7/18 monoclonal antibody specifically reacts with mouse CD105 (Endoglin), a 90kDA homodimeric glycoprotein expressed on vascular endothelial cells. CD105 is a marker for tumor angiogenesis research by identifying proliferating endothelium. It is also suggested to be involved in embryonic angiogenesis and cellular adhesion.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.5 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Ge, A. Z., Butcher, E. C. (1994). Cloning and expression of a cDNA encoding mouse endoglin, an endothelial cell TGF-β ligand.;Gene,;138(1), 201-206.

2. Onoe, T., Ohdan, H., Tokita, D., Shishida, M., Tanaka, Y., Hara, H., ... Asahara, T. (2005). Liver sinusoidal endothelial cells tolerize T cells across MHC barriers in mice.;The Journal of Immunology,;175(1), 139-146.

3. St-Jacques, S., Cymerman, U. R. S. Z. U. L. A., Pece, N. A. D. I. A., Letarte, M. (1994). Molecular characterization and in situ localization of murine endoglin reveal that it is a transforming growth factor-beta binding protein of endothelial and stromal cells.;Endocrinology,;134(6), 2645-2657.

email: info@bio-gems.com | domain: www.bio-gems.com | phone: 818.338.3312 | fax: 818.338.3316