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Technical Data Sheet

Anti-Mouse CD144 (VE-Cadherin) PE

Catalog Number :16512-60

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

Product Information

Clone: BV13

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 IgG1, 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 BV13 monoclonal antibody specifically reacts with mouse CD144 (VE-Cadherin), a 120 kDA type II Cadherin. CD144 is a hemophilic adhesion molecule of the endothelial cell line essential to maintaining cell layer integrity. It is involved in cell growth inhibition, migration, and survival.

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 ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Corada, M., Mariotti, M., Thurston, G., Smith, K., Kunkel, R., Brockhaus, M., ... Dejana, E. (1999). Vascular endothelial;cadherin is an important determinant of microvascular integrity in vivo.;Proceedings of the National Academy of Sciences,;96(17), 9815-9820.

2. Crosby, C. V., Fleming, P. A., Argraves, W. S., Corada, M., Zanetta, L., Dejana, E., Drake, C. J. (2005). VE-cadherin is not required for the formation of nascent blood vessels but acts to prevent their disassembly.;Blood,;105(7), 2771-2776.

3. May, C., Doody, J. F., Abdullah, R., Balderes, P., Xu, X., Chen, C. P., ... Bohlen, P. (2005). Identification of a transiently exposed VE-cadherin epitope that allows for specific targeting of an antibody to the tumor neovasculature.Blood,;105(11), 4337-4344.

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