

Anti-Human/Mouse CD146 PE

Catalog Number :18512-60

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

Product Information

Clone: P1H12

Format/Conjugate: PE

Concentration: 5 uL (0.125 ug)/test

Reactivity: Human, Mouse

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

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: Mouse 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 P1H12 monoclonal antibody reacts with CD146, 118kDA transmembrane glycoprotein that is also called the melanoma cell adhesion molecule (Mel-CAM), MUC18, Endo-CAM, and S-Endo. It is a prominently glycosylated protein with carbohydrates comprising the majority of its mass and it is expressed on melanoma, stromal, endothelial, and bone marrow fibroblasts. The P1H12 antibody cross reacts with human, mouse, canine, rabbit to the exclusion of rat protein.

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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1. Elshal, M. F., Khan, S. S., Takahashi, Y., Solomon, M. A., McCoy, J. P. (2005). CD146 (Mel-CAM), an adhesion marker of endothelial cells, is a novel marker of lymphocyte subset activation in normal peripheral blood.; Blood, 106(8), 2923-2924.
2. Shih, I. M. (1999). The role of CD146 (Mel-CAM) in biology and pathology.; The Journal of pathology.; 189(1), 4-11.
3. Solovey, A. N., Gui, L., Chang, L., Enenstein, J., Browne, P. V., Hebbel, R. P. (2001). Identification and functional assessment of endothelial P1H12. Journal of Laboratory and Clinical Medicine.; 138(5), 322-331.