

Anti-Mouse CD166 APC

Catalog Number :18712-80

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

Product Information

Clone: ALC48

Format/Conjugate: APC

Concentration: 0.2 mg/ml

Reactivity: Mouse

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

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

Isotype: Rat IgG2a, kappa

Formulation: Phosphate-buffered aqueous solution, $\leq 0.09\%$ 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 ALC48 monoclonal antibody specifically reacts with mouse CD166, a type I transmembrane glycoprotein in the immunoglobulin superfamily that is also called ALCAM. It plays an important role in mediating adhesion reactions and is expressed on activated monocytes, activated T cells, fibroblasts, neurons, and melanoma cells

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 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Hirata, H., Murakami, Y., Miyamoto, Y., Tosaka, M., Inoue, K., Nagahashi, A., ... Kawamata, S. (2006). ALCAM (CD166) is a surface marker for early murine cardiomyocytes. *Cells Tissues Organs*, 184(3-4), 172-180.
2. Murakami, Y., Hirata, H., Miyamoto, Y., Nagahashi, A., Sawa, Y., Jakt, M., ... Kawamata, S. (2007). Isolation of cardiac cells from E8.5 yolk sac by ALCAM (CD166) expression. *Mechanisms of development*, 124(11), 830-839.
3. Franke, K., Vilne, B., da Costa, O. P., Rudelius, M., Peschel, C., Oostendorp, R. A., Keller, U. (2015). In vivo hematopoietic Myc activation directs a transcriptional signature in endothelial cells within the bone marrow microenvironment. *Oncotarget*, 6(26), 21827.