

## Anti-Mouse CD166 FITC

Catalog Number :18712-50

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

### Product Information

**Clone:** ALC48

**Format/Conjugate:** FITC

**Concentration:** 0.5 mg/mL

**Reactivity:** Mouse

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3

**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  $\leq 0.25$  ug per million cells in 100  $\mu$ 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.