

Anti-Mouse CD31 FITC

Catalogue Number : 03412-50

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

Product Information

Clone: 390

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, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C.

Applications: FC

Description

The 390 monoclonal antibody specifically reacts with mouse cd31, a 130-140 kDA type I transmembrane glycoprotein also known as platelet-endothelial cell adhesion molecule-1 (PECAM-1). CD31 is reported to bind to CD38 and is expressed on platelets, monocytes, granulocytes, and endothelial cells. It plays a role in angiogenesis, wound healing, cellular migration, and signal transduction.

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 ≤1.0 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. HORENSTEIN, A., STOCKINGER, H., Imhof, B., ; MALAVASI, F. (1998). CD38 binding to human myeloid cells is mediated by mouse and human CD31. *Biochem. J.*;330, 1129-1135.
2. Baldwin, H. S., Shen, H. M., Yan, H. C., DeLisser, H. M., Chung, A., Mickanin, C., ... ; Albelda, S. M. (1994). Platelet endothelial cell adhesion molecule-1 (PECAM-1/CD31): alternatively spliced, functionally distinct isoforms expressed during mammalian cardiovascular development. *Development*;120(9), 2539-2553.
3. DeLisser, H. M., Christofidou-Solomidou, M., Strieter, R. M., Burdick, M. D., Robinson, C. S., Wexler, R. S., ... ; Albelda, S. M. (1997). Involvement of endothelial PECAM-1/CD31 in angiogenesis. *The American journal of pathology*;151(3), 671.