

Anti-Mouse CD31 Biotin

Catalog Number :03412-30

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

Product Information

Clone: 390

Format/Conjugate: Biotin

Concentration: 0.5 mg/ml

Reactivity: Mouse

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

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. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography.

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 antibody 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. 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.