

Anti-Human CD106 (VCAM-1) PE

Catalog Number :18111-60

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

Product Information

Clone: STA

Format/Conjugate: PE

Concentration: 5 μ L (0.5 μ g)/test

Reactivity: Human

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, $\leq 0.09\%$ 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 STA monoclonal antibody specifically reacts with human CD106, a 110 kDA glycoprotein also named Vascular Cell Adhesion Molecule-1 (VCAM-1) and INCAM-110. Its expression is induced by inflammation stimuli and cytokines and it is found mainly on activated vascular endothelium. CD106 is also found on subsets of macrophages, stromal cells, dendritic cells, and myeloid lineage cells. The integrins that bind CD106 are CD49d/CD29 and LPAM-1, and it is involved in cell adhesion, transmigration and T cell proliferation.

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 μ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 μ L.

References

- Schlossman, S. F. (1995).;Leucocyte typing V: White cell differentiation antigens: Proceedings of the Fifth International Workshop and Conference, Held in Boston, USA 3-7 November, 1993. Oxford University Press.
- Wagner, B. J., Lindau, D., Ripper, D., Stierhof, Y. D., Glatzle, J., Witte, M., ... Königsrainer, A. (2011). Phagocytosis of dying tumor cells by human peritoneal mesothelial cells.;Journal of cell science,;124(10), 1644-1654.
- Leca, G., Mansur, S. E., Bensussan, A. (1995). Expression of VCAM-1 (CD106) by a subset of TCR gamma delta-bearing lymphocyte clones. Involvement of a metalloprotease in the specific hydrolytic release of the soluble isoform.;The Journal of Immunology,;154(3), 1069-1077.