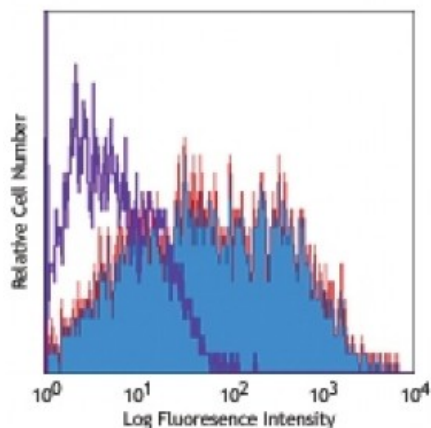


Biotin anti-human CD106

Catalog # / Size: 2129020 / 100 µg
Clone: STA
Isotype: Mouse IgG1, κ
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number: V A013
Concentration: 0.5



TNF-α stimulated HUVEC cells stained with biotinylated STA, followed by Sav-PE

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunofluorescence³, immunohistochemical staining of acetone-fixed frozen tissue sections, immunoprecipitation², and ELISA² capture for sCD106.

Application References:

- Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
- Leca G, *et al.* 1995. *J. Immunol.* 154:1069. (ELISA IP)
- Yen YT, *et al.* 2006. *J. Virol.* 80:2648. (IF) [PubMed](#)

Description: CD106 is a 110 kD single chain type I glycoprotein also known as VCAM-1 and INCAM-110. It is expressed predominantly on activated vascular endothelium but has also been identified on follicular and interfollicular dendritic cells, some macrophages, bone marrow stromal cells, and non-vascular cell populations within joints, kidney, muscle, heart, placenta, and brain. Expression on endothelial cells as well as many other cells is induced by inflammatory stimuli and cytokines. Activated endothelial cells can release soluble forms of CD106 which can be detected in the blood. CD106 binds the integrins CD49d/CD29 (VLA-4) and α₄β₇ that contribute to leukocyte adhesion, transmigration, and co-stimulation of T cell proliferation.

Antigen References:

- Carlos T, *et al.* 1994. *Blood* 84:2068.
- Jones E, *et al.* 1995. *Nature* 373:539.