

Biotin anti-human CD106

Catalog # / Size: 305803 / 25 µg
305804 / 100 µg

Clone: STA

Isotype: Mouse IgG1, κ

Workshop Number: V A013

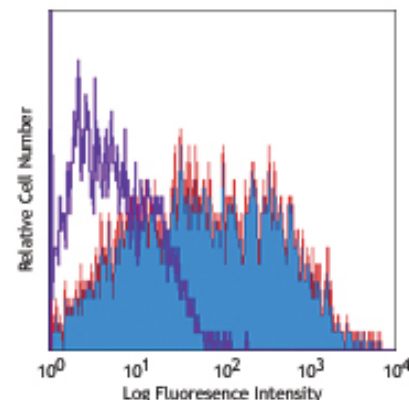
Reactivity: Human

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.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



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

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl 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.

Related Products: Product

PE anti-human CD49d	Clone	
PE anti-human CD29	9F10	
Biotin Mouse IgG1, κ Isotype Ctrl	TS2/16	
Cell Staining Buffer	MOPC-21	
RBC Lysis Buffer (10X)		
Human TruStain FcX™ (Fc Receptor Blocking Solution)		

Application
FC
FC
FC, ICFC
FC, ICC, ICFC
FC, ICFC
FC, ICC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.