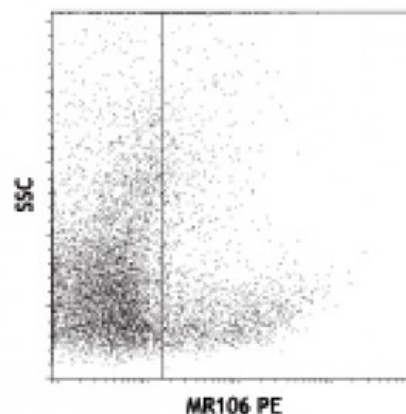


PE anti-rat CD106

Catalog # / Size: 1602015 / 50 µg
Clone: MR106
Isotype: Mouse IgG1, κ
Immunogen: Rat VCAM-1 transfected L5178Y cells
Reactivity: Rat
Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.2



Lou rat bone marrow cells stained with MR106 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 ≤1.0 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: immunohistochemical staining of acetone-fixed frozen sections^{1,2,3}.

Application References:
1. Bevilacqua, M.P. 1993. *Annu. Rev. Immunol.* 11:767. (IHC)
2. Wingerd, K.L., et al. 2002. *J. Neuroscience* 22:10772. (IHC)
3. Ogawa, T., et al. 2004. *Am J. Physiol. Gastrointest. Liver Physiol.* 286:G702. (IHC)

Description: CD106 is a 110 kD transmembrane protein also known as VCAM-1 and INCAM-110. It is an immunoglobulin superfamily member and is expressed on bone marrow stromal cells, myeloid cells, splenic dendritic cells and endothelial cells (activated by cytokines). CD106 is a counter-receptor for VLA-4 ($\alpha_4\beta_1$ integrin) and LPAM-1 ($\alpha_4\beta_7$ integrin). The interactions of CD106 and VLA-4 or LPAM-1 play an important role in binding of leukocytes to activated endothelial cells and leukocyte extravasation at inflammatory sites.

Antigen References:
1. Barclay, A.N., et al. 1997. *The Leukocyte Antigen FactsBook*. Academic Press.
2. Kinashi, T., et al. 1995. *J. Leuk. Biol.* 57:168.
3. Bevilacqua, M.P., 1993. *Ann. Rev. Immunol.* 11:767.
4. Koni, P.