

Purified anti-rat CD106

Catalog # / Size: 200401 / 50 µg
200402 / 500 µg

Clone: MR106

Isotype: Mouse IgG1, κ

Immunogen: Rat VCAM-1 transfected L5178Y cells

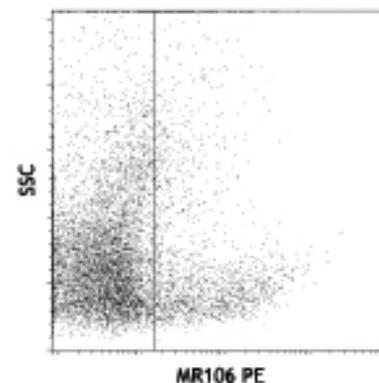
Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography.

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.



Lou rat bone marrow cells stained with MR106 PE

Applications:

Applications: FC - *Quality tested*
IHC, IP, WB - *Reported in the literature*

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 ≤1.0 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: immunohistochemical staining^{1,2,3} of acetone-fixed frozen sections, immunoprecipitation, and Western blotting.

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.A., *et al.* 2001. *J. Exp. Med.* 193:741.

Related Products:

Product	Clone	Application
Purified anti-rat CD49d	MR α 4-1	FC, IP
Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, ICC, IF, IHC, IP, WB
Biotin Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC, ELISA, IHC, IF, WB
PE Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC



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.