

Technical Data Sheet

PLACE LABEL HERE

Reagent: Anti- $\alpha 4\beta 7$ integrin

Antibody/Part No: A4B7/PR-1427

Species/Isotype: Rhesus recombinant IgG1

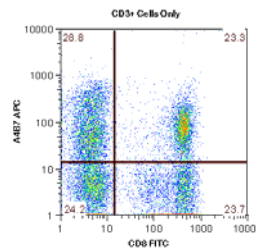
Description: A4B7 is a rhesus recombinant antibody that binds to macaque $\alpha 4\beta 7$ integrin and bind to the same epitope as Act-1¹ and Vedolizumab. The antibody variable region contains mouse CDRs of Act-1 grafted into human frameworks. The constant regions are native rhesus IgG1 and rhesus kappa.

When administered intravenously, this antibody binds to macaque $\alpha 4\beta 7$ integrin on lymphocytes in blood and tissues but does not deplete the targeted cell population².

Storage: Store at 4° to 8° C. Do not freeze

Purity: Confirmed by HPLC

In vitro:



In vivo Does not deplete target cells. Native heavy chain binds normally to Fc γ receptors and complement

- References**
1. Lazarovits AI, Moscicki RA, Kurnick JT, Camerini D, Bhan AK, Baird LG, Erikson M, Colvin RB. Lymphocyte activation antigens. I. A monoclonal antibody, anti-Act I, defines a new late lymphocyte activation antigen. *J Immunol* 1984; 133:1857. PMID: 6088627
 2. Pereira LE, Onlamoon N, Wang X, Wang R, Li J, Reimann KA, Villinger F, Pattanapanyasat K, Mori K, Ansari AA. Preliminary in vivo efficacy studies of a recombinant rhesus anti-alpha(4)beta(7) monoclonal antibody. *Cell Immunol* 2009; 259:165. PMID: PMC2765715
 3. Byrareddy SN, Arthos J, Cicala C, Villinger F, Ortiz KT, Little D, Sidell N, Kane MA, Yu J, Jones JE, Santangelo PJ, Zurla C, McKinnon LR, Arnold KB, Woody CE, Walter L, Roos C, Noll A, Van Ryk D, Jelacic K, Cimbro R, Gumber S, Reid MD, Adsay V, Amancha PK, Mayne AE, Parslow TG, Fauci AS, Ansari AA. Sustained virologic control in SIV+ macaques after antiretroviral and $\alpha 4\beta 7$ antibody therapy. *Science* 2016; 354: 197-202.

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