

12-8045: Anti-Human CD49D (Integrin alpha 4) (Natalizumab) - PE

Clonality :	Monoclonal
Clone Name :	Hu114
Application :	FACS
Reactivity :	Human
Alternative Name :	CD49D; alpha 4 subunit of VLA-4 receptor; ITGA4; Integrin alpha-IV
Isotype :	Human IgG1k
Immunogen Information :	RAMOS cell line injected into mice.

Description

Expression Host : HEK-293

This non-therapeutic biosimilar antibody uses the same variable region sequence as the therapeutic antibody Natalizumab. Natalizumab binds to the alpha 4 subunit of alpha4beta1 and alpha4beta7 integrins. This product is for research use only. Natalizumab is characterized as a disease-modifying therapy for multiple sclerosis (a disease of the central nervous system (CNS)), and inflammatory bowel disease. It works by inhibiting the migration of leukocytes to inflammation sites. The VCAM-1 and alpha4beta1-integrin interaction is necessary for leukocyte adhesion, firm attachment, and transmigration across the blood-brain barrier into the CNS. Natalizumab, a recombinant, humanized antibody, binds to alpha4beta1 - integrin and blocks its interaction with VCAM-1. Hence, leukocyte migration into brain tissue is inhibited, thereby reducing inflammation and preventing the formation of multiple sclerosis lesions.¹ Inflammation in the gut pertaining to inflammatory bowel disease can be controlled in a similar fashion. Blocking alpha4beta7-integrin with a humanized, monoclonal antibody, specific to the alpha4beta7 heterodimer inhibits the migration of leukocytes into the inflamed intestinal tissue, thus, reducing inflammation in the gut.² This cost-effective, research-grade Anti-Human CD49D (Natalizumab) utilizes the same variable regions from the therapeutic antibody Natalizumab making it ideal for research projects.

Product Info

Amount :	50 µg Concentration : 0.2 mg/ml
Content :	This R-phycoerythrin (R-PE) conjugate is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.
Storage condition :	This R-phycoerythrin (R-PE) conjugate is stable when stored at 2-8°C. Do not freeze.

Application Note

The suggested concentration for Natalizumab biosimilar antibody for staining cells in flow cytometry is ≤ 1.0 µg per 10⁶ cells in a volume of 100 µl. Titration of the reagent is recommended for optimal performance for each application.