

# VivoGenie Anti-CD49D / Integrin alpha 4 (Natalizumab) Biosimilar (Fc Reduced)

IVMB0208

## Description

---

This VivoGenie Anti-CD49D / Integrin alpha 4 (Natalizumab) Biosimilar (Fc Reduced) is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

## Product Information

---

<b>SKU:</b>	IVMB0208
<b>Contents:</b>	500ug Bradford Reagent: 1 vial (2ml)
<b>Synonyms:</b>	CD49D, Alpha 4 Subunit of VLA-4 Receptor, ITGA4, Integrin alpha-IV
<b>Category:</b>	Biosimilar Recombinant Human Monoclonal Antibody
<b>Target:</b>	CD49D
<b>Clone:</b>	Hu114
<b>Isotype:</b>	Human IgG4k
<b>Applications:</b>	<b>B</b> <b>FC</b>
<b>Specificity:</b>	This non-therapeutic biosimilar antibody uses the same variable region sequence as the therapeutic antibody Natalizumab. Natalizumab binds to the alpha 4 subunit of $\alpha 4\beta 1$ and $\alpha 4\beta 7$ integrins. This product is for research use only.

## Antibody Data

---

<b>Reactivity:</b>	Human
<b>Host species:</b>	Human
<b>Expression Host:</b>	HEK-293 Cells

### Manufacturers Statement

This final kit system is assembled and quality-released by Assay Genie Limited.

- Immunogen:** RAMOS cell line injected into mice.
- Product concentration:**  $\geq 5.0$  mg/ml
- Endotoxin Level:**  $< 1.0$  EU/mg as determined by the LAL method
- Purity:**  $\geq 95\%$  by SDS Page,  $\geq 95\%$  Monomer by analytical SEC
- Formulation:** This biosimilar antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

## Preparation & Storage

---

- Storage:** Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at  $\leq -70^\circ\text{C}$ . Avoid Repeated Freeze Thaw Cycles.  
Store Bradford Reagent at Room Temperature for 1 Year.
- Shipping:** 2-8°C Wet Ice
- Preparation:** Recombinant biosimilar antibodies are manufactured in an animal free facility using only in vitro protein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.
- Recommended Dilution Buffer:** -

Recommended Usage:	Application	Recommended Usage
	FC	The suggested concentration for Natalizumab biosimilar antibody for staining cells in flow cytometry is $\leq 0.25$ $\mu\text{g}$ per $10^6$ cells in a volume of 100 $\mu\text{l}$ . Titration of the reagent is recommended for optimal performance for each application.

**Protein  
Quantification  
(Optional):**

To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol