# **Technical Data Sheet**

### InVivoSIM anti-human integrin α4β1 (VLA-4)



<u>Attention</u>: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <a href="https://bioxcell.com/terms-and-conditions">https://bioxcell.com/terms-and-conditions</a>.

## **Lot Specific Information**

Lot Number: Lot Specific\*
Volume: Lot Specific\*

Concentration: Lot Specific\* (generally 4 to 11 mg/ml) \*

Total Protein: Lot Specific\*

\*This information will be noted on the certificate of analysis that ships with this product.

#### **Product Information**

Catalog Number: SIM0018
Clone: Natalizumab
Isotype: Human IgG4, κ

**Recommended Isotype Control(s):** InVivoMAb polyclonal human IgG **Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer

Immunogen:Human integrin α4β7Reported Applications:Functional assays<br/>Flow cytometry

PBS, pH 7.0

Contains no stabilizers or preservatives

**Endotoxin:** <0.5EU/mg (<0.0005EU/μg)

Determined by LAL gel clotting assay

**Purity:** >95%

Determined by SDS-PAGE

Sterility: 0.2 µm filtered
Purification: Protein G
Aggregation: <5%

Determined by SEC

 RRID:
 AB\_2927534

 Molecular Weight:
 150 kDa

#### Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative,

### **Description**

Formulation:

This non-therapeutic biosimilar antibody uses the same variable regions from the therapeutic antibody Natalizumab making it ideal for research use. This Natalizumab biosimilar reacts with human VLA-4  $\alpha$  chain also known as CD49d and integrin alpha 4. VLA-4 is a 150 kDa glycoprotein belonging to the integrin family that is expressed by many cell types including T and B lymphocytes, monocytes, eosinophils, basophils, mast cells, thymocytes, NK cells, and dendritic cells. Integrin  $\alpha$ 4 associates with integrin  $\beta$ 7 to form integrin  $\alpha$ 4 $\beta$ 7 also known as LPAM-1 as well as integrin  $\beta$ 1 (CD29) to form integrin  $\alpha$ 4 $\beta$ 1 also known as VLA-4. Integrin  $\alpha$ 4 plays roles in adhesion and T cell co-stimulation. Integrin  $\alpha$ 4 ligands include VCAM-1, MAdCAM-1, and fibronectin.

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## **Storage**

Store at the stock concentration at 4°C. **Do not freeze.** 

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <a href="https://bioxcell.com/fags">https://bioxcell.com/fags</a>.

### **Protocol Information**

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

## **Application References**

For a complete list of references, visit <a href="https://bioxcell.com/sim0018?bxcs=9k1b3a#tab\_references">https://bioxcell.com/sim0018?bxcs=9k1b3a#tab\_references</a> or scan the QR code below.



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