

# Technical Data Sheet

## InVivoMAb anti-mouse/human VLA-4 (CD49d)



**Attention:** 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 <https://bioxcell.com/terms-and-conditions>.

### 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:** BE0071  
**Clone:** PS/2  
**Isotype:** Rat IgG2b,  $\kappa$   
**Recommended Isotype Control(s):** InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin  
**Recommended Dilution Buffer:** InVivoPure pH 6.5 Dilution Buffer  
**Immunogen:** Mouse P815 mast cells  
**Reported Applications:** *in vivo* VLA-4 neutralization  
*in vitro* VLA-4 neutralization  
Flow cytometry  
**Formulation:** PBS, pH 6.5  
Contains no stabilizers or preservatives  
**Endotoxin:** <2EU/mg (<0.002EU/ $\mu$ g)  
Determined by LAL gel clotting assay  
**Purity:** >95%  
Determined by SDS-PAGE  
**Sterility:** 0.2  $\mu$ m filtered  
**Production:** Purified from cell culture supernatant in an animal-free facility  
**Purification:** Protein G  
**RRID:** [AB\\_1107657](https://abnova.com/AB_1107657)  
**Molecular Weight:** 150 kDa

### Description

The PS/2 monoclonal antibody reacts with human and mouse 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. The PS/2 antibody is useful for *in vivo* and *in vitro* VLA-4 neutralization.

### 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 <https://bioxcell.com/faqs>.

### 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 [https://bioxcell.com/be0071?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0071?bxcs=9k1b3a#tab_references) or scan the QR code below.



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**Bio X Cell, LLC**

<https://bioxcell.com>

+1-866-787-3444

[customerservice@bioxcell.com](mailto:customerservice@bioxcell.com)

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