

# Technical Data Sheet

## InVivoMAb anti-mouse CD28



**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:                 | BE0015-5  |
| Clone:                          | PV-1  |
| Isotype:                        | Armenian Hamster IgG, $\kappa$                                      |
| Recommended Isotype Control(s): | InVivoMAb polyclonal Armenian hamster IgG                           |
| Recommended Dilution Buffer:    | InVivoPure pH 7.0 Dilution Buffer                                   |
| Immunogen:                      | C57BL/6 mouse T cell lymphoma EL-4 cells                            |
| Reported Applications:          | <i>in vitro</i> T cell stimulation/activation                       |
| Formulation:                    | PBS, pH 7.0<br>Contains no stabilizers or preservatives             |
| Endotoxin:                      | <2EU/mg (<0.002EU/ $\mu$ g)<br>Determined by LAL gel clotting assay |
| Purity:                         | >95%<br>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:                           | <a href="https://abnova.com/AB_1107628">AB_1107628</a>              |
| Molecular Weight:               | 150 kDa   |

### Description

The PV-1 monoclonal antibody reacts with mouse CD28, a 45 kDa costimulatory receptor and a member of the Ig superfamily. CD28 is expressed by thymocytes, most peripheral T cells, and NK cells. CD28 is a receptor for CD80 (B7-1) and CD86 (B7-2). Signaling through CD28 augments IL-2 and IL-2 receptor expression as well as cytotoxicity of CD3-activated T cells. The PV-1 antibody has been shown to stimulate the proliferation and cytokine production by activated T and NK cells.

### 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/catalogsearch/result/?q=BE0015-5#tab\\_references](https://bioxcell.com/catalogsearch/result/?q=BE0015-5#tab_references) or scan the QR code below.



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*Not for resale.*

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