

# Technical Data Sheet

## InVivoMAb anti-human CD4



**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: BE0288  
Clone: RPA-T4  
Isotype: Mouse IgG1,  $\kappa$   
Recommended Isotype Control(s): InVivoMAb mouse IgG1 isotype control, unknown specificity  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: Not available or unknown  
Reported Applications: *in vitro* CD4 blockade  
*in vitro* blocking of CD4+ T cell activation  
Immunofluorescence  
Immunohistochemistry (frozen)  
Flow cytometry  
  
Formulation: PBS, pH 7.0  
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 filtration  
  
Production: Purified from cell culture supernatant in an animal-free facility  
  
Purification: Protein G  
  
RRID: [AB\\_2687811](https://identifiers.org/AB_2687811)  
  
Molecular Weight: 150 kDa

### Description

The RPA-T4 monoclonal antibody reacts with the human CD4. The CD4 antigen is a 55 kDa cell surface type I membrane glycoprotein belonging to the immunoglobulin superfamily. CD4 acts as a co-receptor which in cooperation with the T cell receptor (TCR) interacts with class II MHC molecules displayed by antigen presenting cells (APC). CD4 is expressed by most thymocytes and helper T cells, a subset of NK-T cells and weakly by dendritic cells and macrophages. CD4 plays an important role in the development of T cells and is required for mature T cells to function optimally. The RPA-T4 antibody is reported to bind to the D1 domain of CD4 and does not block the binding of the OKT-4 antibody. Additionally, RPA-T4 has been shown to block the binding of HIV gp120 protein to CD4 and inhibit CD4 T cell activation *in vitro*.

### 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.

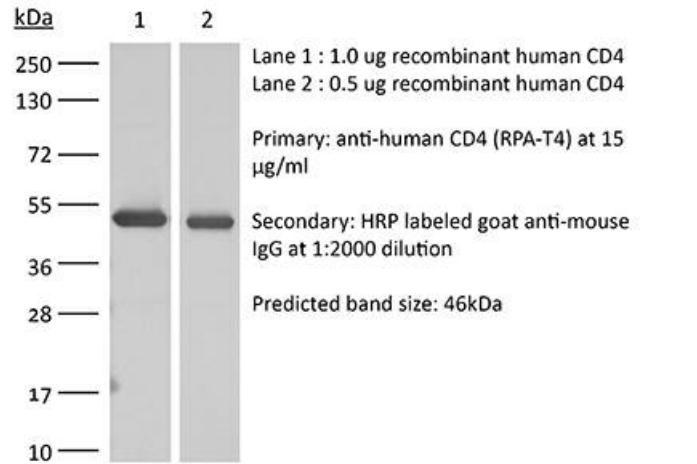
Application References

For a complete list of references, visit [https://bioxcell.com/be0288?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0288?bxcs=9k1b3a#tab_references) or scan the QR code below.



Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail [technicalservice@bioxcell.com](mailto:technicalservice@bioxcell.com).



Bio X Cell, LLC  
<https://bioxcell.com>  
+1-866-787-3444  
[customerservice@bioxcell.com](mailto:customerservice@bioxcell.com)

*Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.*  
*Not for resale.*  
**Bio X Cell, Bio X Cell logo, and all other trademarks are the property of Bio X Cell, LLC © 2025 Bio X Cell, LLC**