

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, κ
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: $\leq 1\text{EU/mg}$ ($\leq 0.001\text{EU}/\mu\text{g}$)
Determined by LAL gel clotting assay

Purity: $\geq 95\%$
Determined by SDS-PAGE

Sterility: 0.2 μm 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.

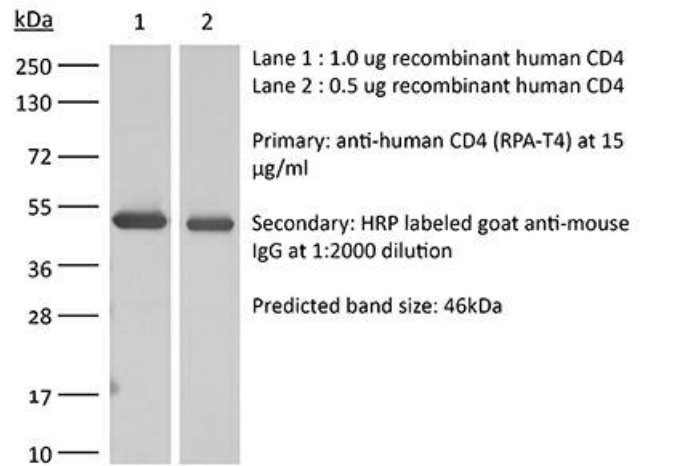
Application References

For a complete list of references, visit https://bioxcell.com/be0288?bxcs=9k1b3a#tab_references 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.



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