

# Technical Data Sheet

InVivoMAb anti-mouse CD8 $\alpha$



**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:** BE0117  
**Clone:** YTS 169.4  
**Isotype:** Rat IgG2b,  $\kappa$   
**Recommended Isotype Control(s):** InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin  
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Immunogen:** CBA mouse thymocytes  
**Reported Applications:** *in vivo* CD8 $^{+}$  T cell depletion  
Western blot  
**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\\_10950145](https://abnova.com/AB_10950145)  
**Molecular Weight:** 150 kDa

## Description

The YTS 169.4 monoclonal antibody reacts with mouse CD8 $\alpha$ . The CD8 antigen is a transmembrane glycoprotein that acts as a co-receptor for the T cell receptor (TCR). Like the TCR, CD8 binds to class II MHC molecules displayed by antigen presenting cells (APC). CD8 is primarily expressed on the surface of cytotoxic T cells, but can also be found on thymocytes, natural killer cells, and some dendritic cell subsets. CD8 most commonly exists as a heterodimer composed of one CD8 $\alpha$  and one CD8 $\beta$  chain however, it can also exist as a homodimer composed of two CD8 $\alpha$  chains. Both the CD8 $\alpha$  and CD8 $\beta$  chains share significant homology to immunoglobulin variable light chains. The molecular weight of each CD8 chain is approximately 34 kDa. The YTS 169.4 antibody exhibits depleting activity when used *in vivo*.

## 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.

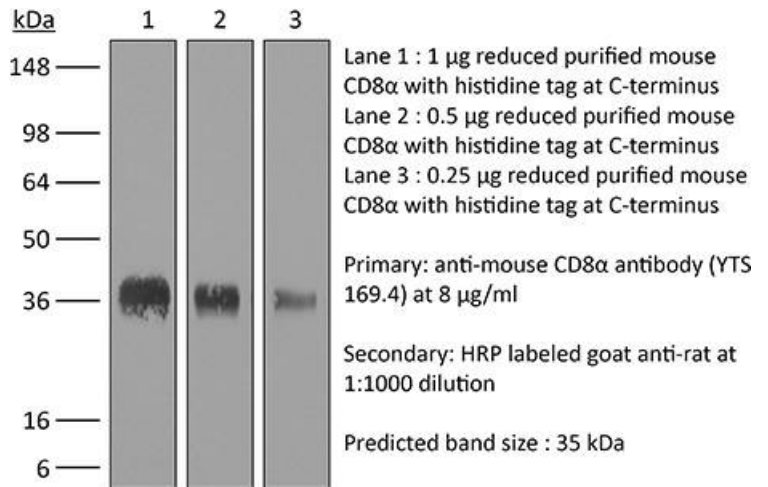
## Application References

For a complete list of references, visit [https://bioxcell.com/catalogsearch/result?q=BE0117#tab\\_references](https://bioxcell.com/catalogsearch/result?q=BE0117#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).



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*Not for resale.*

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