

# Technical Data Sheet

## InVivoMAb anti-human CD3



**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:** BE0231  
**Clone:** UCHT1 (Leu-4) (T3)  
**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:** Human CD3 $\epsilon$   
**Reported Applications:** *in vivo* T cell depletion in humanized mice  
*ex vivo* T cell inhibition for xenographs  
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 filtered  
**Production:** Purified from cell culture supernatant in an animal-free facility  
**Purification:** Protein G  
**RRID:** [AB\\_2687713](https://abnova.com/AB_2687713)  
**Molecular Weight:** 150 kDa

### Description

The UCHT1 (Leu-4)(T3) monoclonal antibody reacts with human CD3 $\epsilon$  a 20 kDa transmembrane cell-surface protein that belongs to the immunoglobulin superfamily. CD3 $\epsilon$  is one of five polypeptide chains that combine to form the TCR complex. CD3 $\epsilon$  is expressed on T lymphocytes NK-T cells and to varying degrees on developing thymocytes. CD3 plays roles in TCR signaling T lymphocyte activation and antigen recognition. Crosslinking of the TCR via immobilized UCHT1 (Leu-4)(T3) antibody is commonly used to activate T cells *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.

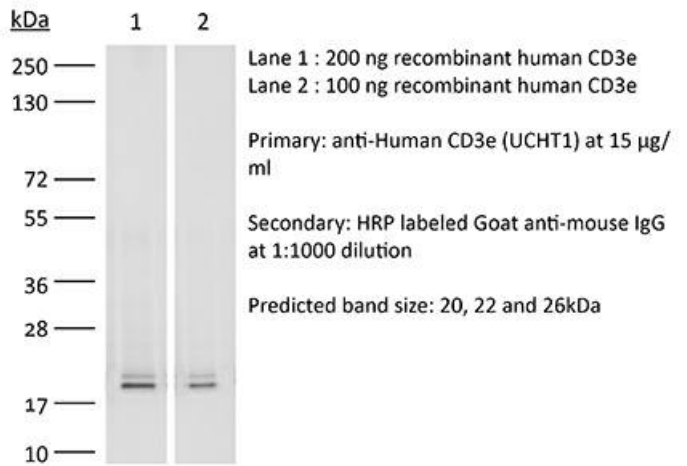
## Application References

For a complete list of references, visit [https://bioxcell.com/catalogsearch/result?q=BE0231#tab\\_references](https://bioxcell.com/catalogsearch/result?q=BE0231#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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### Bio X Cell, LLC

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*Not for resale.*

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