

# Technical Data Sheet

## InVivoMAb anti-mouse CD132 (common $\gamma$ chain)



**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:** BE0271  
**Clone:** 3E12  
**Isotype:** Rat IgG2b  
**Recommended Isotype Control(s):** InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin  
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Immunogen:** Rat myeloma YB2/0 transfected with mouse cytoplasmic-tailless CD132  
**Reported Applications:** *in vivo*  $\gamma$ c blockade  
Functional assays  
Immunoprecipitation  
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\\_2687794](https://abnova.com/AB_2687794)  
**Molecular Weight:** 150 kDa

### Description

The 3E12 monoclonal antibody reacts with mouse CD132 also known as the common gamma chain and IL-2 receptor gamma chain. CD132 is a 64-70 kDa type I transmembrane glycoprotein belonging to the Ig superfamily. It is expressed by a wide range of cells including T and B lymphocytes, NK cells, monocytes, and granulocytes. CD132 is an essential subunit of the receptor complexes for at least six different interleukin receptors: IL-2, IL-4, IL-7, IL-9, IL-15 and IL-21 receptors. Ligand binding induces tyrosine phosphorylation and initiates signaling through the JAK/STAT pathway. The 3E12 antibody has been reported to block the bioactivity of IL-4, IL-9, and IL-15 and inhibit the ligand/receptor binding of IL-4 and IL-7.

### 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.

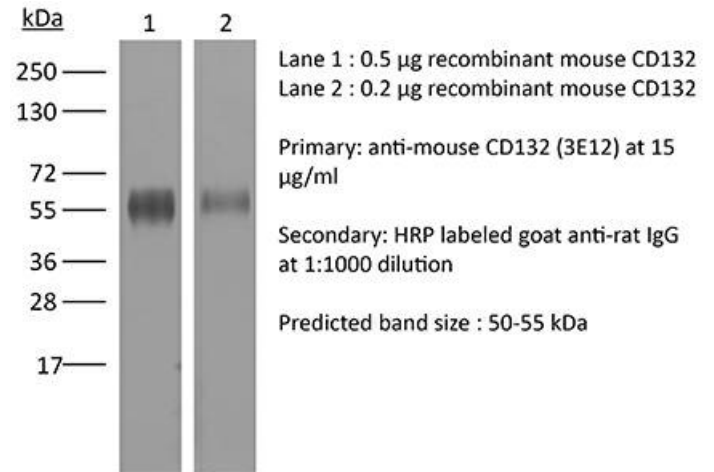
## Application References

For a complete list of references, visit [https://bioxcell.com/catalogsearch/result?q=BE0271#tab\\_references](https://bioxcell.com/catalogsearch/result?q=BE0271#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 © 2024 Bio X Cell, LLC**