

# Technical Data Sheet

## InVivoMAb anti-mouse 4-1BB (CD137)



**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: BE0296  
Clone: 17B5  
Isotype: Syrian hamster IgG  
Recommended Isotype Control(s): InVivoMAb polyclonal Syrian hamster IgG  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: Not available or unknown  
Reported Applications: *in vitro* 4-1BB blockade  
Flow cytometry  
Formulation: PBS, pH 7.0  
Contains no stabilizers or preservatives  
Endotoxin: <2EU/mg (<0.002EU/μg)  
Determined by LAL gel clotting assay  
Purity: >95%  
Determined by SDS-PAGE  
Sterility: 0.2 μm filtration  
Production: Purified from cell culture supernatant in an animal-free facility  
Purification: Protein A  
RRID: [AB\\_2687819](https://eutils.ncbi.nlm.nih.gov/entrez/eutils/rrid.cgi?db=AB_2687819)  
Molecular Weight: 150 kDa

### Description

The 17B5 monoclonal antibody reacts with mouse 4-1BB, a TNF receptor superfamily member also known as CD137. 4-1BB is a 39 kDa transmembrane protein expressed by T lymphocytes, NK cells, dendritic cells, granulocytes, and mast cells. Upon binding its ligand 4-1BBL, 4-1BB provides costimulatory signals to both CD4 and CD8 T cells through the activation of NF-κB, c-Jun and p38 downstream pathways. The importance of the 4-1BB pathway has been underscored in several diseases, including cancer. The 17B5 antibody has been shown to block 4-1BB-mediated T cell proliferation *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/be0296?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0296?bxcs=9k1b3a#tab_references) or scan the QR code below.



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