

# Technical Data Sheet

## InVivoMAb anti-mouse CD48



**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: **BE0147**  
Clone: **HM48-1**  
Isotype: Armenian hamster IgG  
Recommended Isotype Control(s): InVivoMAb polyclonal Armenian hamster IgG  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: MBL2 mouse T lymphoma cells  
Reported Applications: *in vivo* CD48 blockade  
*in vitro* CD48 blocking  
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 filtered  
Production: Purified from cell culture supernatant in an animal-free facility  
Purification: Protein G  
RRID: [AB\\_10949470](https://eutils.ncbi.nlm.nih.gov/entrez/eutils/rrid.cgi?db=AB_10949470)  
Molecular Weight: 150 kDa

### Description

The HM48-1 monoclonal antibody reacts with mouse CD48 also known as BCM1, Blast-1 (human), and OX-45 (rat). CD48 is a 45 kDa GPI-anchored glycoprotein and a member of the SLAM family and Ig superfamily. CD48 is expressed on T and B lymphocytes as well as monocytes and macrophages. CD48 plays a critical role in adhesion and T cell activation. The primary ligands for CD48 are CD2 and CD244. The HM48-1 antibody is reported to block the CD48/CD2 and CD48/CD244 interactions *in vivo* as well as inhibit the proliferative response of mitogen-activated spleen cells, provide a co-stimulatory signal for activated T cells *in vitro*, and prolong cardiac allograft survival *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/be0147?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0147?bxcs=9k1b3a#tab_references) or scan the QR code below.



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*Not for resale.*

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