



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:	<i>in vivo</i> CD48 blockade <i>in vitro</i> 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 tissue culture supernatant in an animal free facility
Purification:	Protein G
RRID:	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*.

Shelf-life and Storage

Store at the stock concentration at 4°C. **Do not freeze.**
All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. 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 bxcell.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://bxcell.com/product/m-cd48-2/#references> or scan the QR code below.

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