

# Technical Data Sheet

## InVivoMAb anti-mouse CD45.2



**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: BE0300  
Clone: 104.2  
Isotype: Mouse IgG2a,  $\kappa$   
Recommended Isotype Control(s): InVivoMAb mouse IgG2a isotype control, unknown specificity  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: B10.S mouse thymocytes and splenocytes  
Reported Applications: Flow cytometry  
*in vivo* CD45.2 blockade  
*in vitro* CD45.2 blockade  
Immunohistochemistry (frozen)  
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 A  
RRID: [AB\\_2715458](https://eutils.ncbi.nlm.nih.gov/entrez/eutils/rrid.cgi?db=AB)  
Molecular Weight: 150 kDa

### Description

The 104.2 monoclonal antibody reacts with mouse CD45.2 a 180-240 kDa member of the protein tyrosine phosphatase family. CD45.2 is an alloantigen of CD45 and is only expressed by certain mouse strains including C57BL/6, CBA, 129, A, AKR, C58, DBA/1, DBA/2, BALB/c, and C3H/He. The 104.2 monoclonal antibody does not react with leukocytes of CD45.1-expressing mouse strains including DA, SJL/J, RIII, and STS/A. CD45.2 is expressed on all hematopoietic cells except mature erythrocytes and platelets and is thought to be involved in TCR and BCR signal transduction. The 104.2 antibody has been shown to block B cell responses *in vitro* and reduce serum autoantibody concentration *in vivo* in SLE-prone mice.

### 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/be0300?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0300?bxcs=9k1b3a#tab_references) or scan the QR code below.



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*Not for resale.*

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