

# Technical Data Sheet

## InVivoMAb anti-human CD71 (TfR1)



**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: BE0367  
Clone: B3/25  
Isotype: Mouse IgG1,  $\kappa$   
Recommended Isotype Control(s): InVivoMAb mouse IgG1 isotype control, unknown specificity  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: Human hematopoietic cell line K562  
Reported Applications: *in vitro* CD71 targeting  
*in vivo* CD71 targeting  
Immunofluorescence  
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  
Purification: Protein G  
RRID: [AB\\_2927504](https://eutils.ncbi.nlm.nih.gov/entrez/eutils/rrid.cgi?db=AB_2927504)  
Molecular Weight: 150 kDa

### Description

The B3/25 monoclonal antibody reacts with human CD71 also known as transferrin receptor or TfR1. CD71 is a type II homodimeric transmembrane glycoprotein which is expressed on the surface of proliferating cells, reticulocytes, and erythroid precursors. CD71 plays a role in the control of cellular proliferation and is required for iron import from transferrin into cells. CD71 is expressed on malignant cells at high levels and its expression correlates with cancer progression. The B3/25 antibody is a non-neutralizing antibody that does not inhibit the binding of transferrin but does result in decreased transferrin binding sites. B3/25 has been shown to inhibit the *in vitro* proliferation of human myeloid leukemia cells as well as used for the delivery of toxins into cancer cells. *in vivo* studies carried out in nude mice showed that one intravenous injection of B3/25 antibody alone inhibits growth of human melanoma M21 xenografts.

### 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/be0367?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0367?bxcs=9k1b3a#tab_references) or scan the QR code below.



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