

# Technical Data Sheet

## InVivoMAb anti-human CD71 (TfR)



**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:** BE0343  
**Clone:** 5E9C11  
**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 acute lymphocytic leukemia T cell line HSB-2  
**Reported Applications:** Western blot  
Immunoprecipitation  
Flow cytometry  
**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 G  
**RRID:** [AB\\_2894762](https://ab2894762)  
**Molecular Weight:** 150 kDa

### Description

The 5E9C11 monoclonal antibody reacts with human CD71 also known as the transferrin receptor. 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 by endocytosis. CD71 is expressed on malignant cells at high levels and its expression correlates with cancer progression. This high expression on malignant cells along with CD71's ability to internalize and the necessity of iron for cancer cell proliferation makes the transferrin receptor an attractive target to exploit for the delivery of drugs into malignant cells. The 5E9C11 antibody does not inhibit the binding of transferrin. This antibody has been previously used to deliver immunotoxins to human tumor xenografts in vivo in 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/be0343?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0343?bxcs=9k1b3a#tab_references) or scan the QR code below.



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*Not for resale.*

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