

# Technical Data Sheet

## InVivoMAb anti-mouse C5aR (CD88)



**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: BE0478  
Clone: 20/70  
Isotype: Rat IgG2b,  $\kappa$   
Recommended Isotype Control(s): InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: Mouse C5aR transfected RBL-2H3 cells  
Reported Applications: *in vivo* blocking of C5aR  
*in vitro* blocking of C5aR  
*in vitro* functional assay  
Flow cytometry  
immunofluorescence  
Formulation: PBS, pH 7.0  
Contains no stabilizers or preservatives  
Endotoxin:  $\leq 1\text{EU/mg}$  ( $\leq 0.001\text{EU}/\mu\text{g}$ )  
Determined by LAL gel clotting assay  
Purity:  $\geq 95\%$   
Determined by SDS-PAGE  
Sterility:  $0.2\ \mu\text{m}$  filtered  
Production: Purified from cell culture supernatant in an animal-free facility  
Purification: Protein G  
RRID:  
Molecular Weight: 150 kDa

### Description

The 20/70 monoclonal antibody reacts with mouse C5aR (CD88), and it does not cross-react with the human species. C5aR is also known as C5A, C5R1, and CD88, and it is a seven-pass transmembrane protein that is expressed on peritoneal monocytes/macrophages, alveolar macrophages, neutrophils, and peripheral blood myeloid cells. C5aR is a receptor for the chemotactic and potent proinflammatory peptide anaphylatoxin C5a, which is central to innate and adaptive immune responses. C5aR acts upstream of or within defense mechanisms against Gram+ bacterial infections, neutrophil chemotaxis, and the response to peptidoglycan. C5aR activation stimulates chemotaxis, granule enzyme release, intracellular calcium release, and superoxide anion production. The C5a-C5aR signaling contributes to the pathophysiology of inflammation-induced diseases. Several *in vivo* studies on mouse models of cancer (e.g., breast, cervical, lung, ovarian, colorectal, and skin cancer) have suggested the C5a-C5aR signaling promotes tumor progression through modulation of angiogenesis and immune cell recruitment and phenotype. Blocking the C5a-C5aR pathway through antibodies has significant potential in cancer immunotherapy by reversing the immunosuppressive tumor microenvironment and improving the efficacy of other treatments, such as checkpoint inhibitors.

### 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/be0478?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0478?bxcs=9k1b3a#tab_references) or scan the QR code below.



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