



Lot Specific Information

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|----------------|---|
| 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

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|---------------------------------|--|
| Catalog Number: | BE0336 |
| Clone: | C595 (NCRC48) |
| Isotype: | Mouse IgG3, κ |
| Recommended Isotype Control(s): | InVivoMAb polyclonal mouse IgG |
| Recommended Dilution Buffer: | InVivoPure pH 7.0 Dilution Buffer |
| Immunogen: | Purified human MUC1 <i>in vivo</i> administration in mouse xenograft models Immunohistochemistry (paraffin) Immunofluorescence <i>in vitro</i> cell cytotoxicity assay Western blot |
| Reported Applications: | |
| 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 A |
| RRID: | |
| Molecular Weight: | 150 kDa |

Description

The C595 (also known as NCRC48) monoclonal antibody reacts with human mucin 1 (MUC1), a 500-1000 kDa transmembrane glycoprotein with a large mucin-like extracellular domain. The epitope of C595 is the tetrameric motif (RPAP) within the protein core of MUC1. MUC1 is highly polymorphic and is expressed on most mucosal epithelial cells, including mammary gland and some hematopoietic cells. MUC1 is heavily glycosylated and plays a crucial role in the lubrication and protection of normal epithelial cells. MUC1 is abnormally expressed in a wide variety of malignancies, including colon, breast, ovarian, lung and pancreatic cancers. MUC1 promotes cancer cell growth and metastases through multiple mechanisms. The C595 antibody has been shown to suppress ovarian tumor xenograft growth in mice.

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/invivomab-anti-human-muc1-cd227/#references> or scan the QR code below.

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