Technical Data Sheet

InVivoMAb anti-human MUC1 (CD227)

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:	**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
Reported Applications:	*in vivo* administration in mouse xenograft models Immunohistochemistry (paraffin) Immunofluorescence *in vitro* cell cytotoxicity assay Western blot
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤1EU/mg (≤0.001EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtration
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein A
RRID:	AB_2894756
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.

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/be0336?bxcs=9k1b3a#tab_references or scan the QR code below.

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