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# Anti-Human TAG-72 (Minretumomab Biosimilar)

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| **Catalog Number:** | 503701, 503702, 503703 |
| **Size:** | 1 mg, 5 mg, 20 mg |
| **Target Name:** | TAG-72, TAG72, Tumor-associated glycoprotein 72 |
| **Regulatory Status:** | RUO |

## PRODUCT DETAILS

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| **Clone:** | Minretumomab |
| **Application:** | Flow cytometry, animal model study |
| **Reactivity:** | Human |
| **Format:** | Liquid |
| **Product Description:** | Minretumomab Biosimilar, TAG-72 Monoclonal Antibody |
| **Isotype:** | Human IgG1 |
| **Clonality:** | Recombinant |
| **Immunogen:** | Human TAG-72 |
| **Species specificity:** | Human |
| **Purity:** | >95% by reducing SDS-PAGE |
| **Grade:** | In vivo |
| **Storage Conditions:** | 4ºC |
| **Maximal Shelf Life:** | 12 months |
| **RRID:** | AB_3739313 |
| **Antibody Type:** | Recombinant |
| **Reactivity:** | Human |

## BACKGROUND INFORMATION

Minretumomab is a humanized monoclonal antibody belonging to the immunoglobulin G1 (IgG1) subclass, engineered to specifically recognize and bind to TAG-72 (tumor-associated glycoprotein 72). It consists of two identical heavy chains and two identical light chains joined by disulfide bonds, forming the typical Y-shaped antibody structure. Produced in mammalian expression systems such as Chinese Hamster Ovary (CHO) cells, it undergoes controlled post-translational modifications to ensure proper folding, stability, and glycosylation patterns essential for its biological function.

The variable regions of Minretumomab (the antigen-binding (Fab) fragments) contain complementarity-determining regions (CDRs) responsible for high-affinity recognition of TAG-72, a high-molecular-weight, mucin-like glycoprotein found on the surface of many cancer cells, particularly adenocarcinomas (breast, colon, pancreatic, ovarian, and lung).

The Fc–FcRn (neonatal Fc receptor) interaction provides extended serum half-life and molecular stability through recycling.

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