

## Anti-Human TROP-2 (Sacituzumab Biosimilar)

<b>Catalog Number:</b>	505501, 505502, 505503, 505504, 505505
<b>Size:</b>	1 mg, 5 mg, 20 mg, 5 mg, 20 mg
<b>Target Name:</b>	□TROP2,TACSTD2, GA733-1, M1S1
<b>Regulatory Status:</b>	RUO

### PRODUCT DETAILS

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<b>Clone:</b>	Sacituzumab
<b>Application:</b>	Flow cytometry, animal model study
<b>Reactivity:</b>	Human
<b>Format:</b>	Liquid
<b>Product Description:</b>	Sacituzumab Biosimilar, Trop-2 Monoclonal Antibody
<b>Isotype:</b>	Human IgG1
<b>Clonality:</b>	Recombinant
<b>Immunogen:</b>	Human Trop-2
<b>Species specificity:</b>	Human
<b>Purity:</b>	>95% by reducing SDS-PAGE
<b>Grade:</b>	In vivo
<b>Storage Conditions:</b>	4°C
<b>Maximal Shelf Life:</b>	12 months
<b>RRID:</b>	AB_3739331
<b>Antibody Type:</b>	Recombinant
<b>Reactivity:</b>	Human

### BACKGROUND INFORMATION

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Sacituzumab, as a therapeutic, is an antibody-drug conjugate (ADC) composed of a humanized monoclonal antibody targeted against trophoblast cell-surface antigen 2 (Trop-2) conjugated to a potent cytotoxic payload. Structurally, the antibody component belongs to the immunoglobulin G1 kappa (IgG1 $\kappa$ ) subclass and has a molecular weight of approximately 150 kilodaltons (kDa). It consists of two identical heavy chains and two identical light chains linked by disulfide bridges, forming the characteristic Y-shaped configuration typical of immunoglobulins. The antibody is produced through recombinant DNA technology in mammalian expression systems, ensuring proper folding, glycosylation, and immunoglobulin stability.

The Trop-2-binding regions of Sacituzumab are located in the variable domains of its heavy (VH) and light (VL) chains, which contain complementarity-determining regions (CDRs) that confer high-affinity binding to a specific extracellular epitope on the Trop-2 glycoprotein. Trop-2 is a transmembrane calcium signal transducer involved in cellular proliferation and adhesion processes.

The antibody's recognition of Trop-2 leads to receptor-specific binding and internalization via endocytosis.

The Fc (fragment crystallizable) portion contributes to molecular stability and longevity through neonatal Fc receptor (FcRn) recycling.

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