

Human Trop-2 Monoclonal Antibody

Catalog No.: YR0018

Basic Information

Molecular Weight

150 kDa

Endotoxin

<1EU/mg (<0.001EU/μg) Determined by LAL gel clotting assay

Sterility

0.2 μm filtration

Aggregation

<5% Determined by SECP

Purity

>95% Determined by SEC-HPLC

Background

Sacituzumab govitecan is a Trop-2-directed antibody and topoisomerase inhibitor drug conjugate used for the treatment of metastatic triple-negative breast cancer and metastatic urothelial cancer. Triple-negative breast cancer is a type of breast cancer that tests negative for estrogen receptors, progesterone receptors and human epidermal growth factor receptor 2 (HER2) protein. Therefore, triple-negative breast cancer does not respond to hormonal therapy medicines or medicines that target HER2. Sacituzumab govitecan is a conjugate of the humanized anti-Trop-2 monoclonal antibody linked with SN-38, the active metabolite of irinotecan. Each antibody having on average 7.6 molecules of SN-38 attached. SN-38 is too toxic to administer directly to patients, but linkage to an antibody allows the drug to specifically target cells containing Trop-2.

Reported Applications

ELISA, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways

Immunogen Information

Clone

Sacituzumab Biosimilar

Isotype

Human IgG1 kappa

Immunogen

Human Trop-2

Recommended Isotype Control(s)

In Vivo Grade Recombinant Human IgG1 Kappa Isotype Control Antibody

Recommended Dilution Buffer

1×PBS pH 7.3

Contact

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Product Information

Production

Purified from cell culture supernatant in an animal-free facility

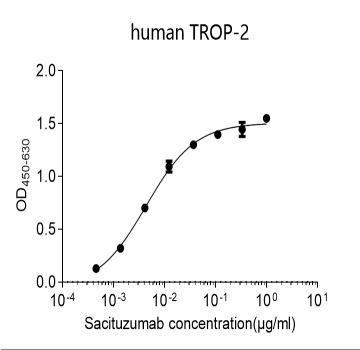
Purification

Protein A or G purification

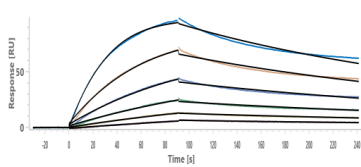
Storage

Store at 2 - 8°C. 2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)

Validation Data



Direct ELISA binding curve demonstrating the recognition of Human Anti-Human Trop-2 (Research Grade Sacituzumab Biosimilar) Monoclonal Antibody to Trop-2. The target protein was coated onto the microplate well surface, followed by binding of the antibody. A donkey anti-human IgG HRP conjugate was used for detection.



Human Trop-2 SPR assay. Determined through SPR assay, the Human Anti-Human Trop-2 (Research Grade Sacituzumab Biosimilar) Monoclonal Antibody is Capable of binding to Human Trop-2 with an affinity constant of 18.8 nM.