

# 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

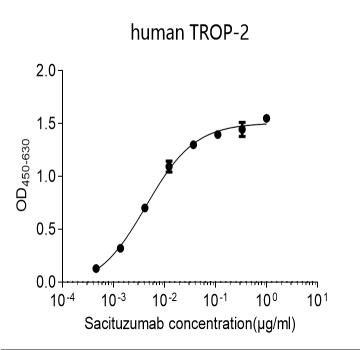
### Purification

Protein A or G purification

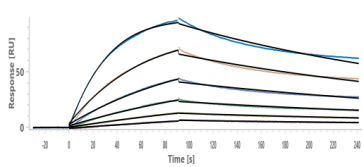
### Storage

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.