Source

Monoclonal Anti-Doxorubicin specific Antibody, Rabbit IgG (1M2C3) is a Rabbit monoclonal antibody recombinantly expressed from HEK293 cells.

Clone

1M2C3

Species

Rabbit

Isotype

Rabbit IgG | Rabbit Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Immunogen

Doxorubicin-BSA.

Specificity

Specifically recognizes Doxorubicin.

Application

Application	Recommended Usage
ELISA	0.06-125 ng/mL

Cross Verification

This product can cross in Elisa with
Doxorubicin.
This product No cross-reactivity in ELISA with
(PBD)SG3199.
MMAF.
Monomethyl auristatin E.
Trastuzumab Biosimilar.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Purification

Protein A purified / Protein G purified

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

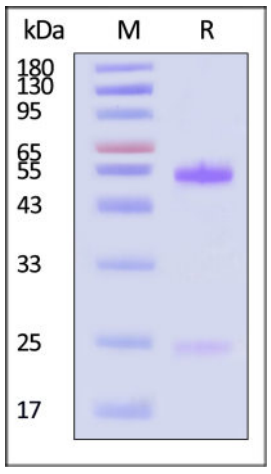
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

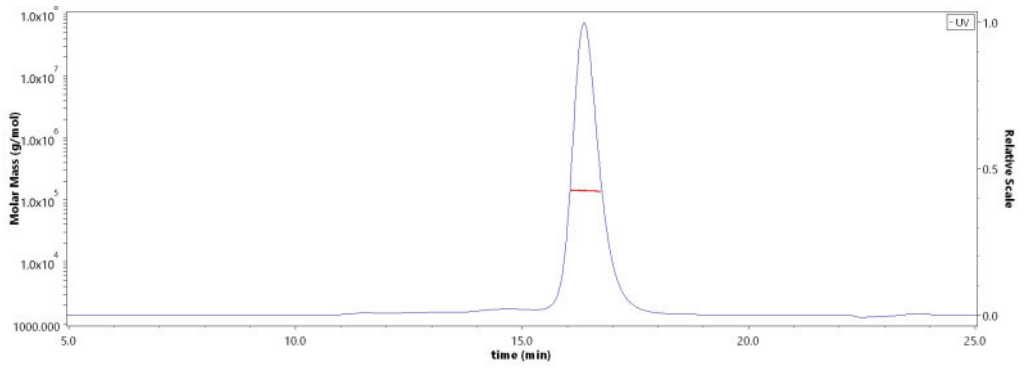
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

SEC-MALS

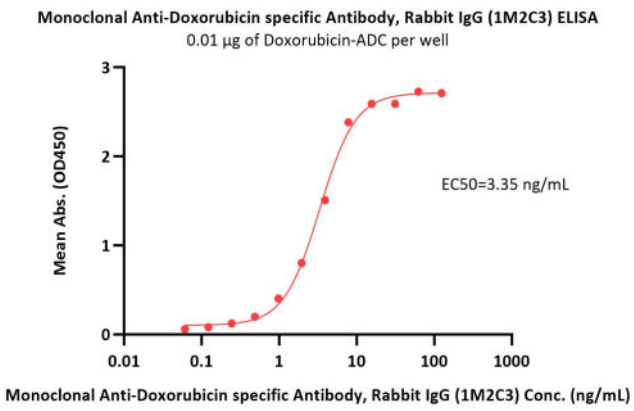


Monoclonal Anti-Doxorubicin specific Antibody, Rabbit IgG (1M2C3) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

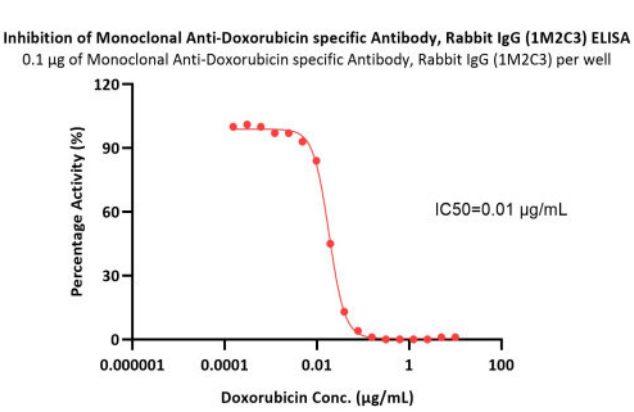


The purity of Monoclonal Anti-Doxorubicin specific Antibody, Rabbit IgG (1M2C3) (Cat. No. DON-MY2216) is more than 90% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS. Report

Bioactivity-ELISA



Immobilized Doxorubicin-ADC at 0.1 μg/mL (100 μL/well) can bind Monoclonal Anti-Doxorubicin specific Antibody, Rabbit IgG (1M2C3) (Cat. No. DON-MY2216) with a linear range of 0.06-8 ng/mL (QC tested).



Serial dilutions of Doxorubicin were added into Monoclonal Anti-Doxorubicin specific Antibody, Rabbit IgG (1M2C3) (Cat. No. DON-MY2216): Doxorubicin-ADC binding reactions. The half maximal inhibitory concentration (IC50) is 0.009186 μg/mL (Routinely tested).

Background

Doxorubicin, a cytotoxic anthracycline antibiotic, is an anti-cancer chemotherapy agent. As the payload of ADC drugs, Doxorubicin can act directly on DNA, insert into the double helix strands of DNA, cause the latter to unwind, change the template properties of DNA, and inhibit DNA polymerase, thereby inhibiting the synthesis of both DNA and RNA. Anti-Doxorubicin antibody is a rabbit monoclonal antibody specifically reacts with Doxorubicin without other payloads, which is more sensitive than mouse antibody. The anti-Doxorubicin antibody is a useful reagent in PK assay to determine conjugated antibodies.

Clinical and Translational Updates