

# Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1 (MALS verified)

Catalog # DXD-M684



BIOSYSTEMS  
**Acro**

## Source

Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1 is a Mouse monoclonal antibody recombinantly expressed from HEK293 cells.

## Species

Mouse

## Isotype

Mouse IgG1 | Mouse Kappa

## Conjugate

Unconjugated

## Antibody Type

Recombinant Monoclonal

## Reactivity

Chemical

## Immunogen

DXD.

## Specificity

Specifically recognizes the target-DXD.

## Application

Application	Recommended Usage
ELISA	0.1-63 ng/mL

## Purity

>90% 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

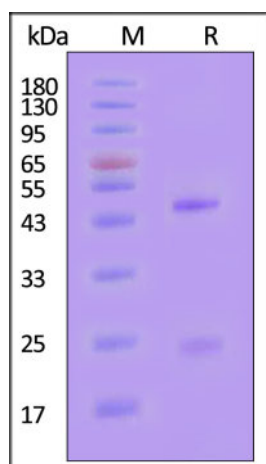
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

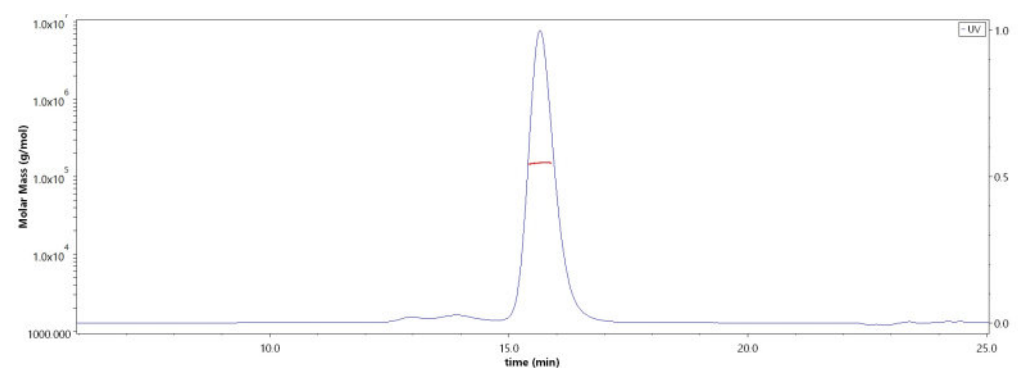
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1 on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The

## SEC-MALS



The purity of Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1 (Cat. No. DXD-M684) is more than 90% and the molecular weight of this protein is around 135-160 kDa verified by SEC-MALS.

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and more!



➤ [www.acrobiosystems.com](http://www.acrobiosystems.com)

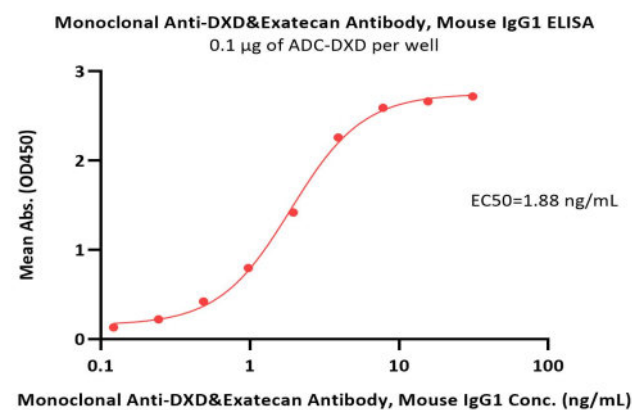
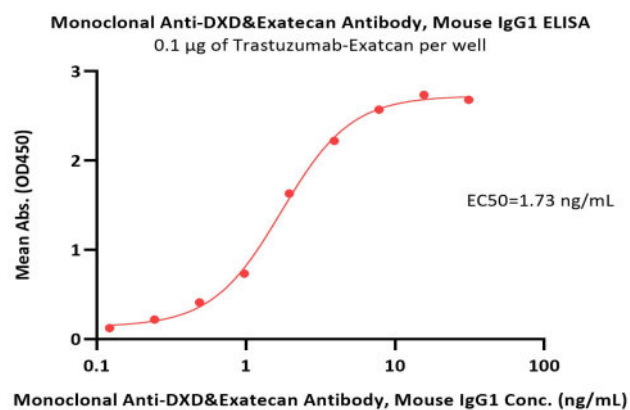
9/2/2024



purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

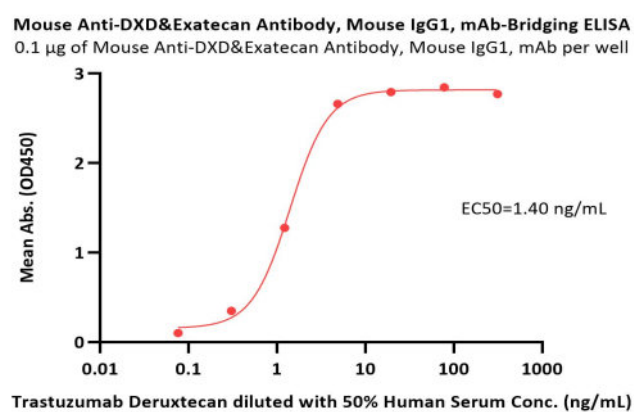
[Report](#)

**Bioactivity-ELISA**



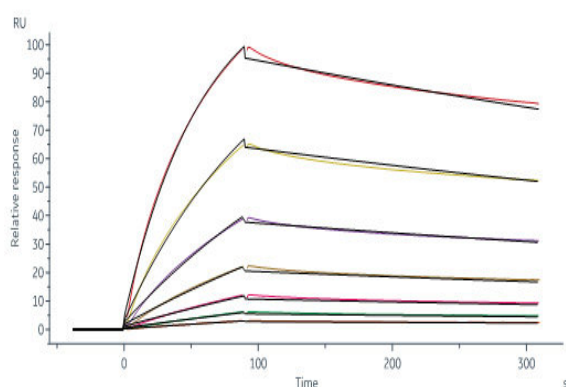
Immobilized Trastuzumab-Exatecan at 1 µg/mL (100 µL/well) can bind Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1, mAb (Cat. No. DXD-M684) with a linear range of 0.1-4 ng/mL (QC tested).

Immobilized ADC-DXD at 1 µg/mL (100 µL/well) can bind Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1, mAb (Cat. No. DXD-M684) with a linear range of 0.1-4 ng/mL (Routinely tested).



Immobilized Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1, mAb (Cat. No. DXD-M684) at 1 µg/mL, add Trastuzumab deruxtecan in the 50% Human serum and then add Biotinylated Human Her2, His,Avitag, premium grade (Cat. No. HE2-H82E2) at 0.5 µg/mL. Detection was performed using HRP-conjugated Streptavidin (Acro, Cat. No. STN-NH913) (Routinely tested).

**Bioactivity-SPR**



Trastuzumab-Exatecan immobilized on CM5 Chip can bind Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1 (Cat. No. DXD-M684) with an affinity constant of 5.87 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

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## Background

Dxd (Exatecan ADC derivative) is a potent D topoisomerase I inhibitor with an IC<sub>50</sub> of 0.31 uM for targeting ADCs (DS-8201A). Dxd was cytotoxic to human tumor cell lines KPL-4, NCI-N87 and SK-BR, 3 and the IC<sub>50</sub>s of MDA-MB-468 was 1.43 NM-4.07 nM, while IgGADC (Dxd as payload) had no inhibitory effect on HER2 expression in the 4 cell lines. DS8201a (Dxd as payload) had a significant inhibitory effect on HER2-positive KPL-4 and NCI cell lines N87 and SK-BR with IC<sub>50</sub> values of 26.8, 25.4 and 6.7 ng/mL, respectively, but had no inhibitory effect on MDA MB-468 (IC<sub>50</sub>, > 10000 - mL). HRP-anti-DXD-antibody is a conjugation product of HRP and anti-DXD-antibody. It can be used in PK, PD analysis and ELISA.

## Clinical and Translational Updates

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