

Specificity

Specifically recognizes the target-DXD.

Source

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

Isotype

Mouse IgG1 | Mouse Kappa

Conjugate

Unconjugated

Reactivity

Chemical

Immunogen

DXD

Application

Application	Recommended Usage
ELISA	0.1-125 ng/mL

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

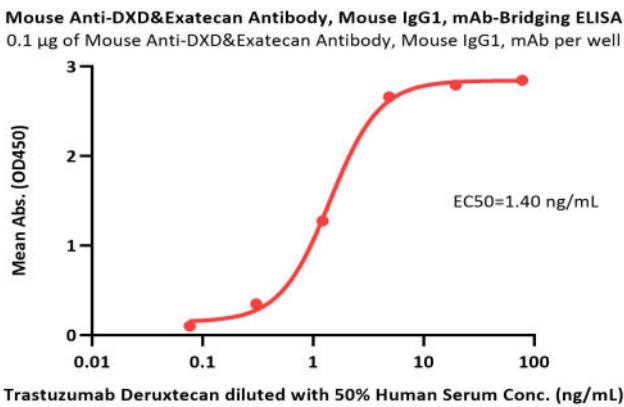
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

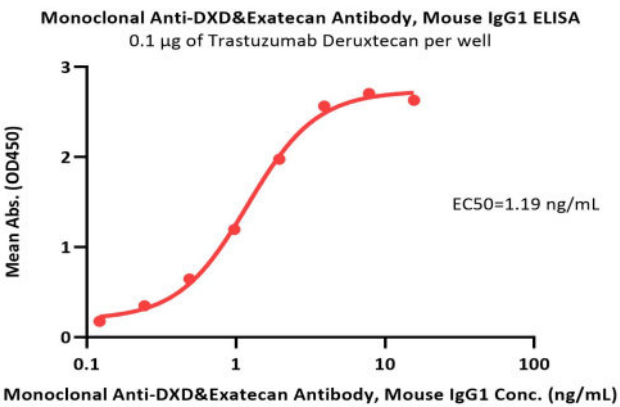
This product is stable after storage at:

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

Bioactivity-ELISA



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) (QC tested).

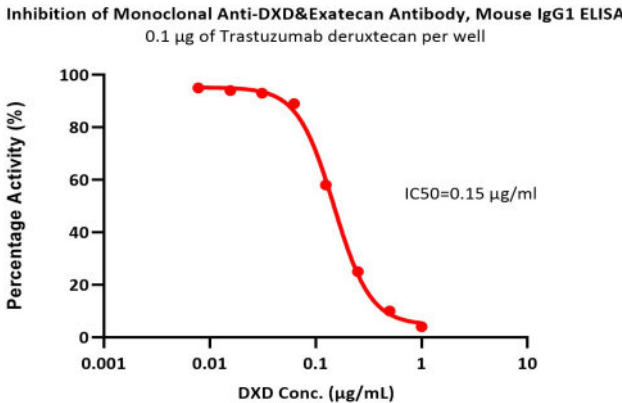
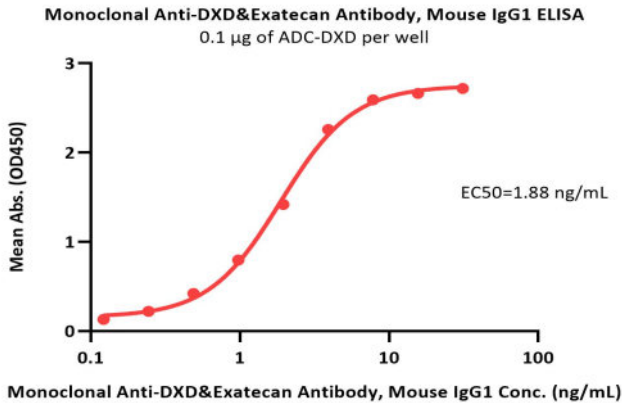


Immobilized Trastuzumab Deruxtecan at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1 (Cat. No. DXD-M684) with a linear range of 0.1-4 ng/mL (Routinely tested).



Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1

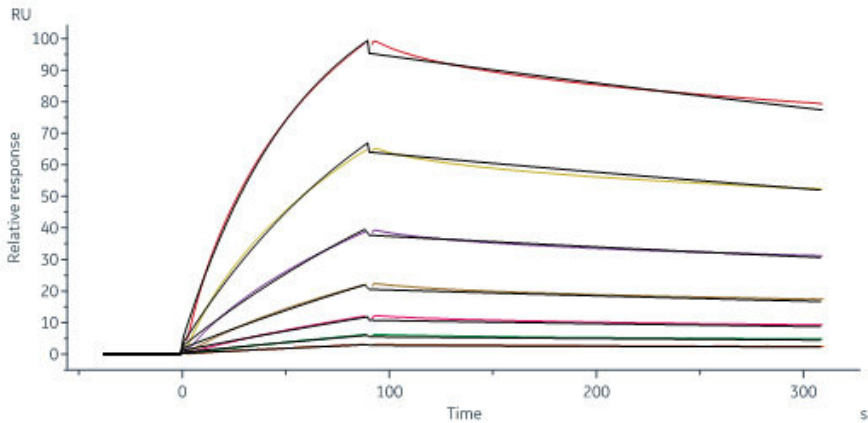
Catalog # DXD-M684



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).

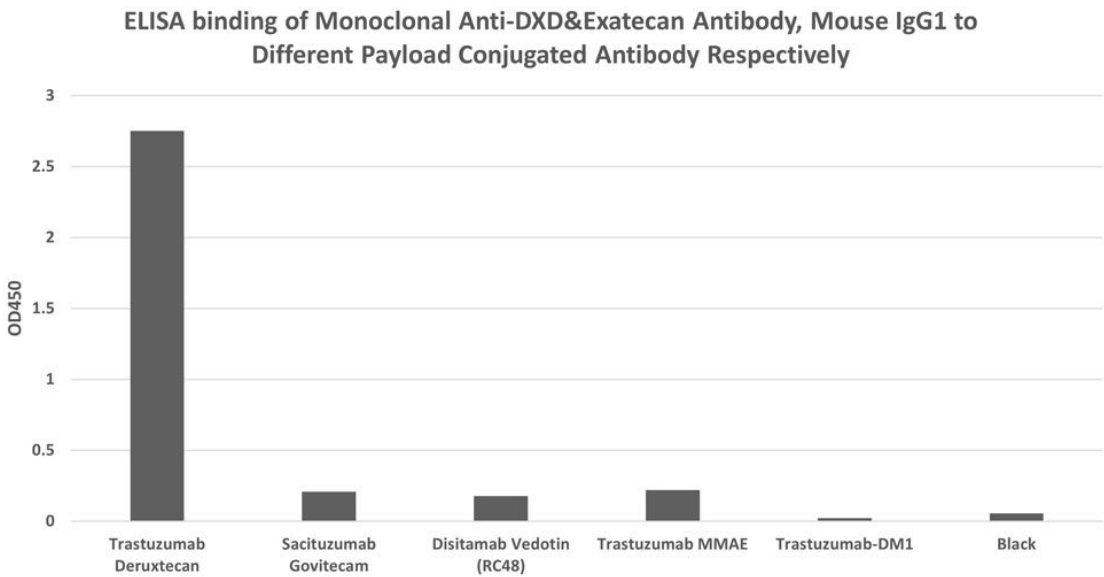
Serial dilutions of DXD were added into Trastuzumab deruxtecan: Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1 (Cat. No. DXD-M684) binding reactions. The half maximal inhibitory concentration (IC50) is 0.1534 µg/mL (Routinely tested).

Bioactivity-SPR



Trastuzumab-Exatcan 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).

Cross Verification



ELISA binding of Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1, mAb (Cat. No. DXD-M684) with Trastuzumab Deruxtecan, Sacituzumab Govitecam, Disitamab Vedotin (RC48), Trastuzumab MMAE and Trastuzumab-DM1 conjugated antibody respectively.



Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1

Catalog # DXD-M684



The coating antibody was Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1, mAb (Cat. No. DXD-M684), used at 1 µg/mL concentration. The primary antibody were different payload conjugated antibodies, including Trastuzumab Deruxtecan, Sacituzumab Govitecam, Disitamab Vedotin (RC48), Trastuzumab MMAE and Trastuzumab-DM1 conjugated antibodies used at 0.5 µg/mL concentration. The secondary antibody was Peroxidase AffiniPure Goat Anti-Human IgG, Fcγ fragment specific (min X Bov, Hrs, Ms Sr Prot) (Jackson, Cat. No. 109-035-098) used at 1:12000 concentration.

Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1, mAb (Cat. No. DXD-M684) is specific to Trastuzumab Deruxtecan and has no cross-reactivity with Sacituzumab Govitecam, Disitamab Vedotin (RC48), Trastuzumab MMAE and Trastuzumab-DM1 (Routinely tested).

Background

Dxd (Exatecan ADC derivative) is a potent DNA topoisomerase I inhibitor with an IC50 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 IC50s 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-BRwith IC50 values of 26.8, 25.4 and 6.7 ng/mL, respectively, but had no inhibitory effect on MDA MB-468 (IC50, > 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.

