



**Source**

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

**Species**

Mouse

**Isotype**

Mouse IgG1 | Mouse Kappa

**Conjugate**

Biotin

**Antibody Type**

Recombinant Monoclonal

**Immunogen**

DXD.

**Specificity**

Specifically recognizes the target-DXD.

**Application**

Application	Recommended Usage
ELISA	1-5000 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**

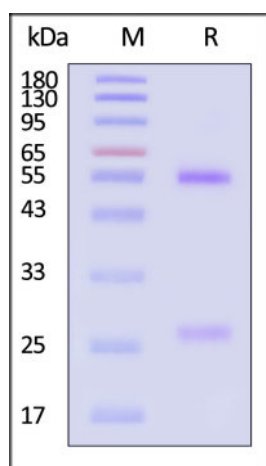
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

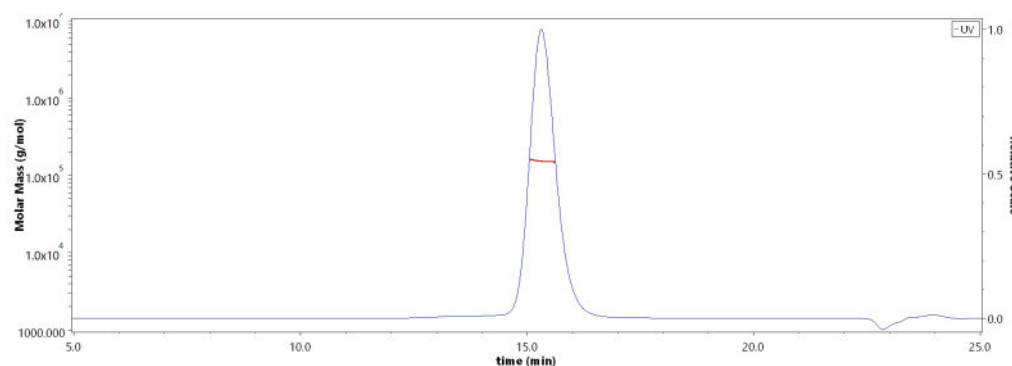
**SDS-PAGE**



Biotinylated Anti-DXD&Exatecan Antibody, Mouse IgG1, Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

**Bioactivity-ELISA**

**SEC-MALS**



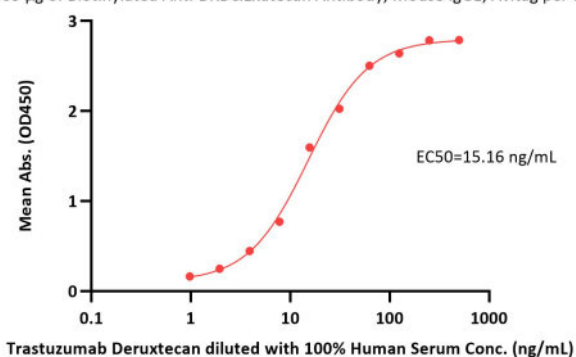
The purity of Biotinylated Anti-DXD&Exatecan Antibody, Mouse IgG1, Avitag (Cat. No. DXD-BVM807) is more than 90% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS. [Report](#)

Discounts, Gifts, and more!

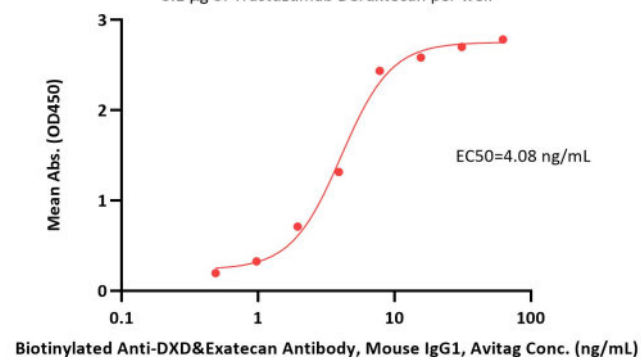




**Biotinylated Anti-DXD&Exatecan Antibody, Mouse IgG1, Avitag-Bridging ELISA**  
0.005 µg of Biotinylated Anti-DXD&Exatecan Antibody, Mouse IgG1, Avitag per well



**Biotinylated Anti-DXD&Exatecan Antibody, Mouse IgG1, Avitag ELISA**  
0.1 µg of Trastuzumab Deruxtecan per well



Immobilized Human Her2, His Tag (Cat. No. HE2-H5225) at 1 µg/mL, add Trastuzumab Deruxtecan in the 100% Human Serum and then add Biotinylated Anti-DXD&Exatecan Antibody, Mouse IgG1, Avitag (Cat. No. DXD-BVM807) at 0.05 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 Biotinylated Anti-DXD&Exatecan Antibody, Mouse IgG1, Avitag (Cat. No. DXD-BVM807) with a linear range of 0.5-8 ng/mL (Routinely tested).

## Background

Dxd (Exatecan ADC derivative) is a potent DNA topoisomerase I inhibitor with an IC<sub>50</sub> of 0.31 µM 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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