HRP conjugated Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1

Catalog # DXD-PLM684

Specificity

Specifically recognizes the target-DXD&Exatecan.

Source

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

Isotype

Mouse IgG1 | Mouse kappa

Conjugate

HRP-Conjugated

Reactivity

Chemical

Immunogen

DXD

Application

Application	Recommended Usage
ELISA	2-5000 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

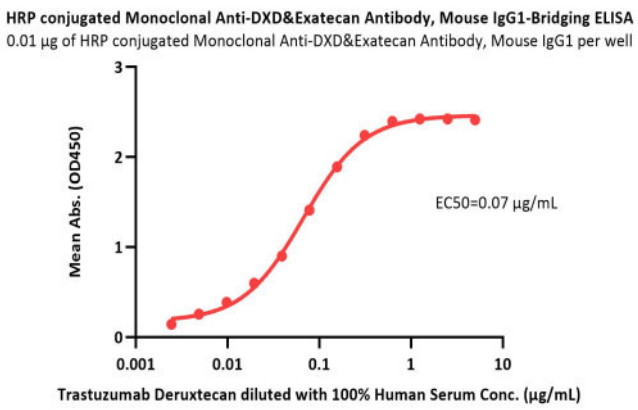
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

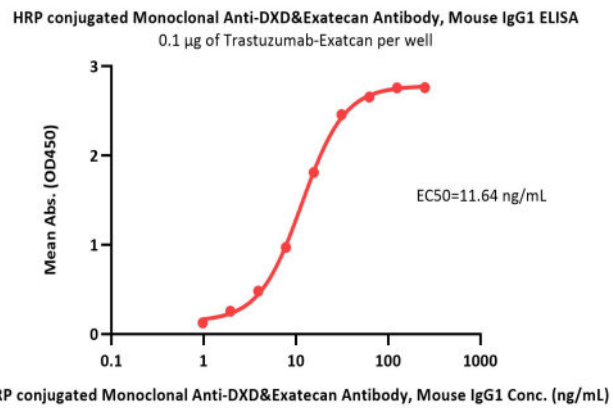
This product is stable after storage at:

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

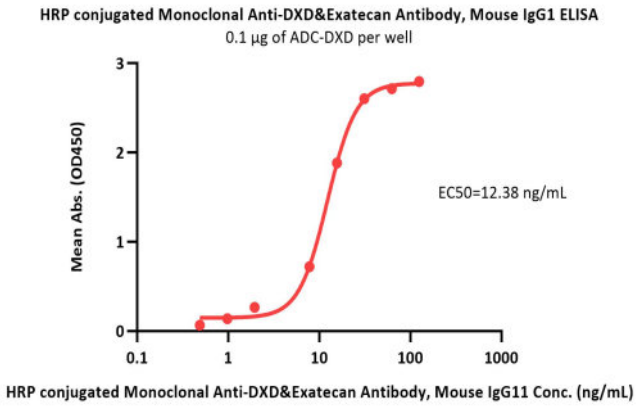
Bioactivity-ELISA



Immobilized Human Her2, His Tag (Cat. No. HE2-H5225) at 1 μg/mL, add Trastuzumab Deruxtecan in the 100% Human Serum and then add HRP conjugated Monoclonal Anti-DXD&Exatecan Antibody, Mouse IgG1 (Cat. No. DXD-PLM684) at 0.1 μg/mL (QC tested).



Immobilized Trastuzumab-Exatcan at 1 μg/mL (100 μL/well) can bind HRP conjugated Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1 (Cat. No. DXD-PLM684) with a linear range of 1-16 ng/mL (Routinely tested).



Immobilized ADC-DXD at 1 μg/mL (100 μL/well) can bind HRP conjugated Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1 (Cat. No. DXD-PLM684) with a linear range of 0.5-31 ng/mL (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 lgGADC (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.