Source

Biotinylated Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1 is recombinantly produced from human 293 cells (HEK293).

Isotype

Mouse IgG1/kappa

Specificity

Specifically recognizes the target-DXD.

Application

PK, PD, Immunoassay and ELISA

Purity

>90% as determined by SDS-PAGE.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

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

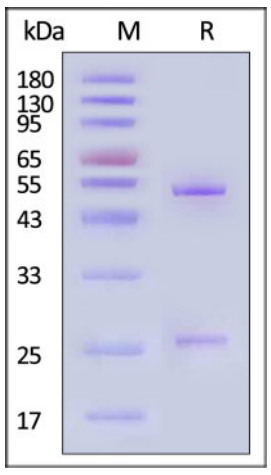
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

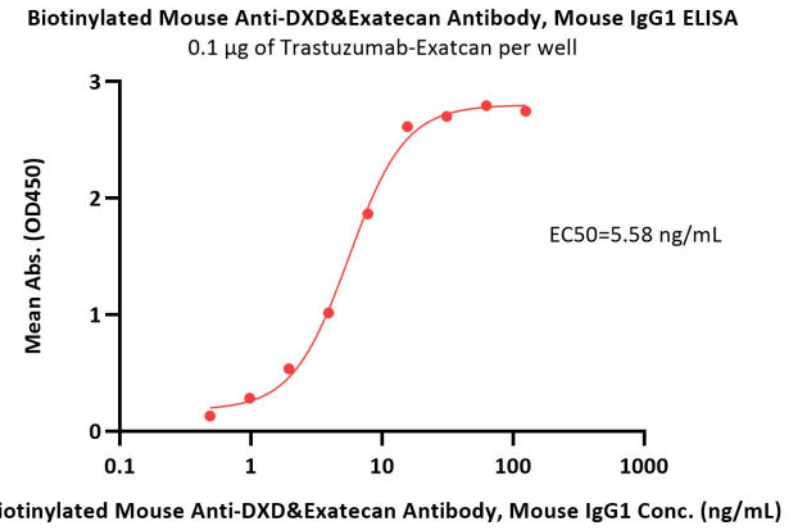
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1 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



Immobilized Trastuzumab-Exatcan at 1 μg/mL (100 μL/well) can bind Biotinylated Mouse Anti-DXD&Exatecan Antibody, Mouse IgG1 (Cat. No. DXD-BLM684) with a linear range of 0.5-8 ng/mL (QC 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.

Clinical and Translational Updates