

DXD Monoclonal Antibody | anti-DXD antibody

DXD Monoclonal Antibody

CATALOG # AAA278950	APPLICATIONS ELISA
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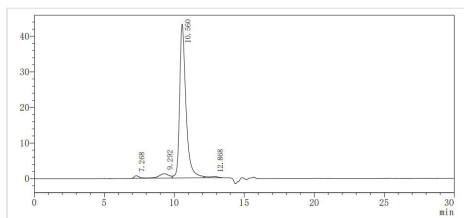
PRODUCT SYNONYMS

DXD; Monoclonal Antibody; DXD Monoclonal Antibody; Exatecan derivative; anti-DXD antibody

PRODUCT SPECIFICATIONS

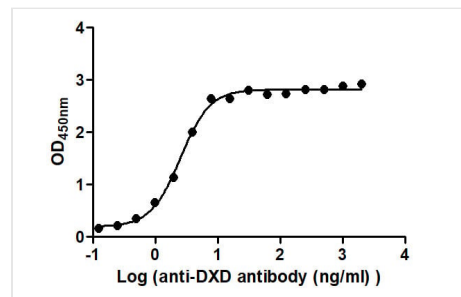
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	8D12C11
Purity/Purification	Affinity-chromatography
Form/Format	Liquid
Applicable Applications for anti-DXD antibody	ELISA
Immunogen	DXD-BSA conjugate
Buffer	Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Preparation and Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

IMAGES



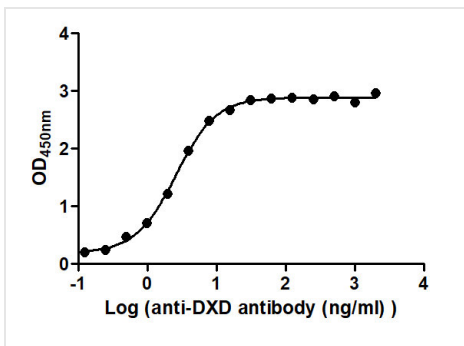
Application Data

The purity of Mouse Anti-DXD Antibody is more than 90% by SEC-MALS.



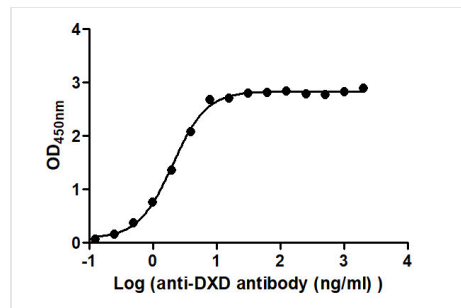
ELISA

The Binding Activity of T-DXd(DS-8201) with Anti-DXD antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized T-DXd(DS-8201) at 2 ug/mL can bind Anti-DXD antibody, the EC50 is 2.225 to 2.851 ng/mL.



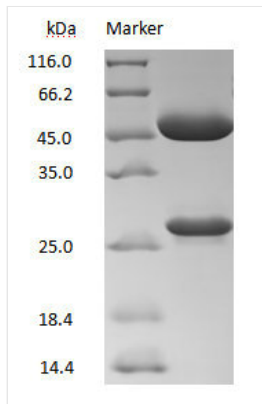
ELISA

The Binding Activity of ADC-2(DXD) with Anti-DXD antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized ADC-2(DXD) at 2 ug/mL can bind Anti-DXD antibody, the EC50 is 2.365 to 2.835 ng/mL.



ELISA

The Binding Activity of ADC-1(DXD) with Anti-DXD antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized ADC-1(DXD) at 2 ug/mL can bind Anti-DXD antibody, the EC50 is 1.840 to 2.253 ng/mL.



WB (Western Blot)

DXD antibody on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 90%.

ADDITIONAL INFORMATION

Related Product Information for anti-DXD antibody

The DXD monoclonal antibody is created using the hybridoma technique. Immunizing a mouse with DXD-BSA induces antibody production by B cells. B cells are extracted from the mouse and then fused with myeloma cells to form hybridomas, from which DXD-specific antibody-producing ones are screened. Selected hybridomas are cultured to generate DXD monoclonal antibodies, which are harvested and subjected to affinity chromatography purification. The purity of the antibody exceeds 90% by SEC-MALS. The antibody's activity has been validated in different functional ELISA, showing the EC50 of 1.840 to 2.253 ng/mL, 2.365 to 2.835 ng/mL, 2.225 to 2.851 ng/mL with ADC-1 (DXD), ADC-2 (DXD), T-DXd (DS-8201), respectively. This DXD monoclonal antibody is a potent tool for DXD-based ADC research, especially for positive reference of DXD-ADC preclinical/clinical immunogenicity, PK analysis, and qualitative detection of DAR value, helping to evaluate and control the efficacy and safety of DXD-ADC drugs.

The Exatecan derivative DXD (deruxitecan) is a cytotoxic payload used in the DXD-ADC (antibody–drug conjugate) technology, an innovative strategy in the field of targeted drug delivery particularly for cancer therapy. DXD-ADC is directed to targeted tumor cells via antibody-tumor cell-specific antigen interaction. After that, ADC undergoes internalization and subsequent processing, leading to the release of the cytotoxic DXD. DXD inhibits topoisomerase I (TOP1) activity and leads to the apoptosis of targeted cancer cells. DXD shows 10-fold higher DNA TOP1 activity inhibitory potency than the active metabolite of irinotecan SN-38. Due to its high cell membrane permeability, DXD exerts a bystander antitumor effect, also providing efficient killing of heterogeneous tumor cells. DXD can reduce cross-resistance, has good water solubility, and can form a stable high-DAR (drug-to-antibody ratio) value in ADC for each target. DXD also has a relatively short systemic half-life in the blood and can be excreted faster outside the body, which helps reduce the risk of adverse reactions.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.