

Therapeutic Index (TI) of Antibody-drug Conjugates (ADCs)

ADCs are often considered to extend the therapeutic index of their payloads. Conjugation of the drug to an antibody can reduce the minimum effective dose (MED) of the drug and increase the maximum tolerated dose (MTD).

When comparing small molecule chemotherapeutic drugs with the ADC, it is important to understand the difference in exposure kinetics between the two. Some researchers have proposed an exposure-based model to calculate TIs. By employing an exposure-based TI calculation approach, we can easily explain the improvement in anti-tumor activities of TI-improved ADCs and capture the emerging success of second-generation ADCs in the clinic.

Creative Diagnostics provides a series of monoclonal and polyclonal antibodies against different small molecule chemotherapeutic drugs in ADCs. These anti-drug antibodies are valuable tools to facilitate the TI analysis of newly developed ADCs bearing these drugs.

Key Features:

- Suitable for PK and safety evaluation of newly developed ADCs
- Good sensitivity and stability
- A comprehensive range of antibodies & kits

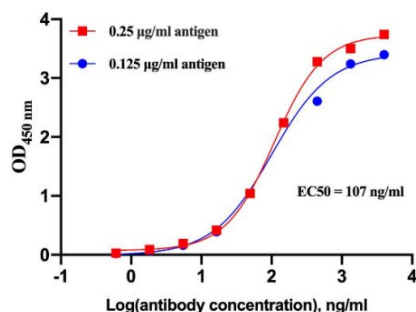


Fig.1 Anti-MMAE Mab Affinity Curves.
(CABT-B8992)

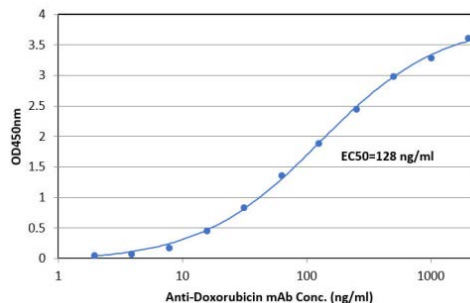


Fig.2 ELISA binding of Anti-Doxorubicin Mab
(CABT-L3221) with doxorubicin

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Product List

Anti-Payloads Antibodies

Cat. No	Product Name	Host	Payload Category
CABT-L3104	Anti-DM1/4 Pab	Rabbit	Tubulin Inhibitor
CABT-B8996	Anti-DM1 Pab	Mouse	Tubulin Inhibitor
CABT-L3105	Anti-DM1/4 Mab	Mouse	Tubulin Inhibitor
CABT-L3103	Anti-MMAE/F Mab	Mouse	Tubulin Inhibitor
CABT-B8992	Anti-MMAE Mab	Mouse	Tubulin Inhibitor
CABT-B8993	Anti-MMAE Mab [Biotin]	Mouse	Tubulin Inhibitor
CABT-B8997	Anti-MMAE Pab	Mouse	Tubulin Inhibitor
CABT-B8994	Anti-MMAF Mab	Mouse	Tubulin Inhibitor
CABT-B8995	Anti-MMAF Mab [Biotin]	Mouse	Tubulin Inhibitor
CABT-L3102	Anti-MMAF Pab	Rabbit	Tubulin Inhibitor
CABT-B8998	Anti-MMAF Pab	Mouse	Tubulin Inhibitor
CABT-L3101	Anti-vc-PAB-MMAE Mab	Mouse	Tubulin Inhibitor
CABT-L3100	Anti-vc-PAB-MMAE Pab	Rabbit	Tubulin Inhibitor
CABT-L3115	Anti-SN38 Mab	Mouse	DNA Topoisomerase I Inhibitor
CABT-L3114	Anti-SN38 Pab	Rabbit	DNA Topoisomerase I Inhibitor
CABT-L3117	Anti-PBD SG3199 Mab	Mouse	DNA Inhibitor
CABT-L3116	Anti-PBD SG3199 Pab	Rabbit	DNA Inhibitor
CABT-L3111	Anti-PNU-159682 Mab	Mouse	DNA Inhibitor
CABT-L3110	Anti-PNU-159682 Pab	Rabbit	DNA Inhibitor
CABT-L3109	Anti-Duocarmycin Mab	Mouse	DNA Damaging
CABT-L3108	Anti-Duocarmycin Pab	Rabbit	DNA Damaging
CABT-L3107	Anti-Calicheamicin Mab	Mouse	DNA Damaging
CABT-L3106	Anti-Calicheamicin Pab	Rabbit	DNA Damaging
CABT-L3113	Anti-Amanitin Mab	Mouse	RNA Polymerase II and III Inhibitor
CABT-L3112	Anti-Amanitin Pab	Rabbit	RNA Polymerase II and III Inhibitor

Quantitative Assays for ADCs

Target	Cat. No	Product Name
MMAE	DEIABL314	Intact MMAE ADC ELISA Kit
MMAF	DEIABL315	Intact MMAF ADC ELISA Kit
DM1	DEIABL311	DM1 ADC EIA Kit
SN 38	DEIABL316	SN 38 ELISA Kit
Doxorubicin	DEIABL322	Doxorubicin ELISA Kit