PRODUCT INFORMATION

Clone ID	DM67
Target	4-1BB
Synonyms	TNFRSF9; 4-1BB; CD137; CDw137; ILA
Host Species	Rabbit
Description	Anti-4-1BB antibody(DM67); Rabbit mAb
Delivery	In Stock
Uniprot ID	Q07011
IgG type	Rabbit IgG
Clonality	Monoclonal
Reactivity	Human
Applications	ELISA; Flow Cyt
Recommended Dilutions	ELISA 1:5000-10000; Flow Cyt 1:100
Purification	Purified from cell culture supernatant by affinity chromatography
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage & Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contributes to the clonal expansion; survival; and development of T cells. It can also induce proliferation in peripheral monocytes; enhance T cell apoptosis induced by TCR:CD3 triggered activation; and regulate CD28 co-stimulation to promote Th1 cell responses. The expression of this receptor is induced by lymphocyte activation. TRAF adaptor proteins have been shown to bind to this receptor and transduce the signals leading to activation of NF-kappaB.
Usage	Research use only
Conjugate	Unconjugated
DIMA Disclaimer	All DIMA recombinant antibodies are genuinely generated by DIMA Biotech. They are all under patent application. Any protein sequencing or reverse engineering attempt is prohibited. We are actively scrutinizing all patent application to ensure no IP infringement.

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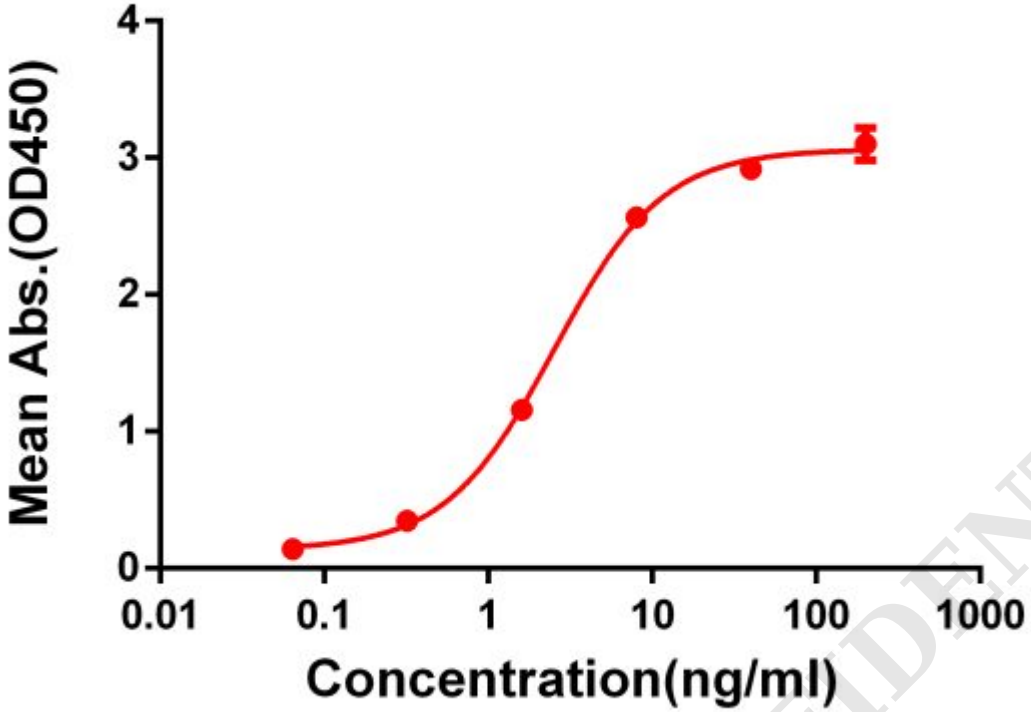

Figure 1. ELISA plate pre-coated by 2 μg/ml (100 μl/well) Human 4-1BB Protein, mFc-His Tag ([getskuurl sku="PME100011"]) can bind Rabbit anti-4-1BB monoclonal antibody (**clone: DM67**) in a linear range of 1-100 ng/ml.

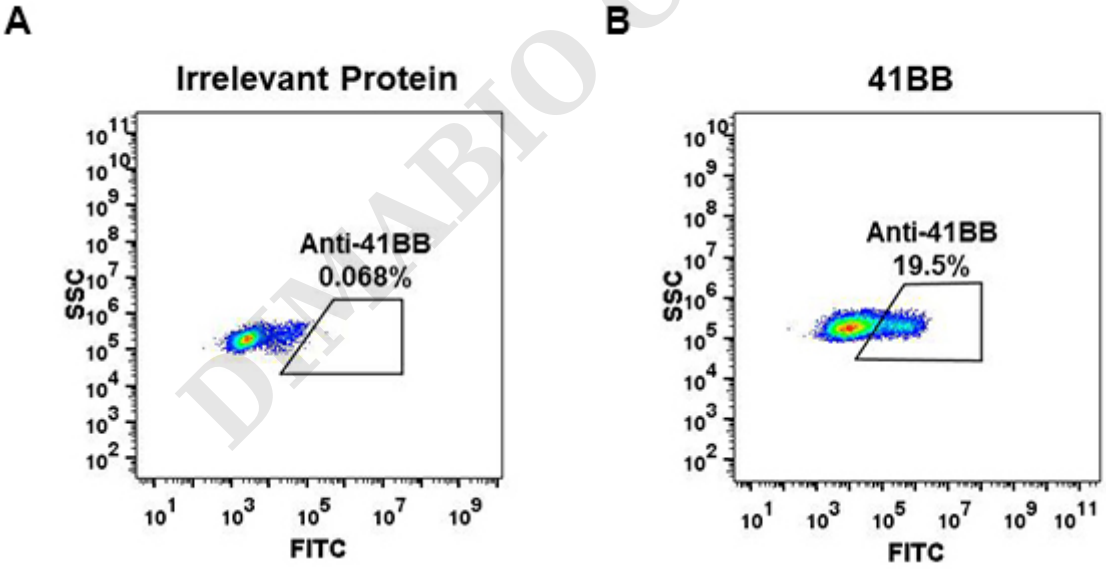

Figure 2. Expi 293 cell line transfected with irrelevant protein **(A)** and human 4-1BB **(B)** were surface stained with Rabbit anti-4-1BB monoclonal antibody 1μg/ml **(clone: DM67)** followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.

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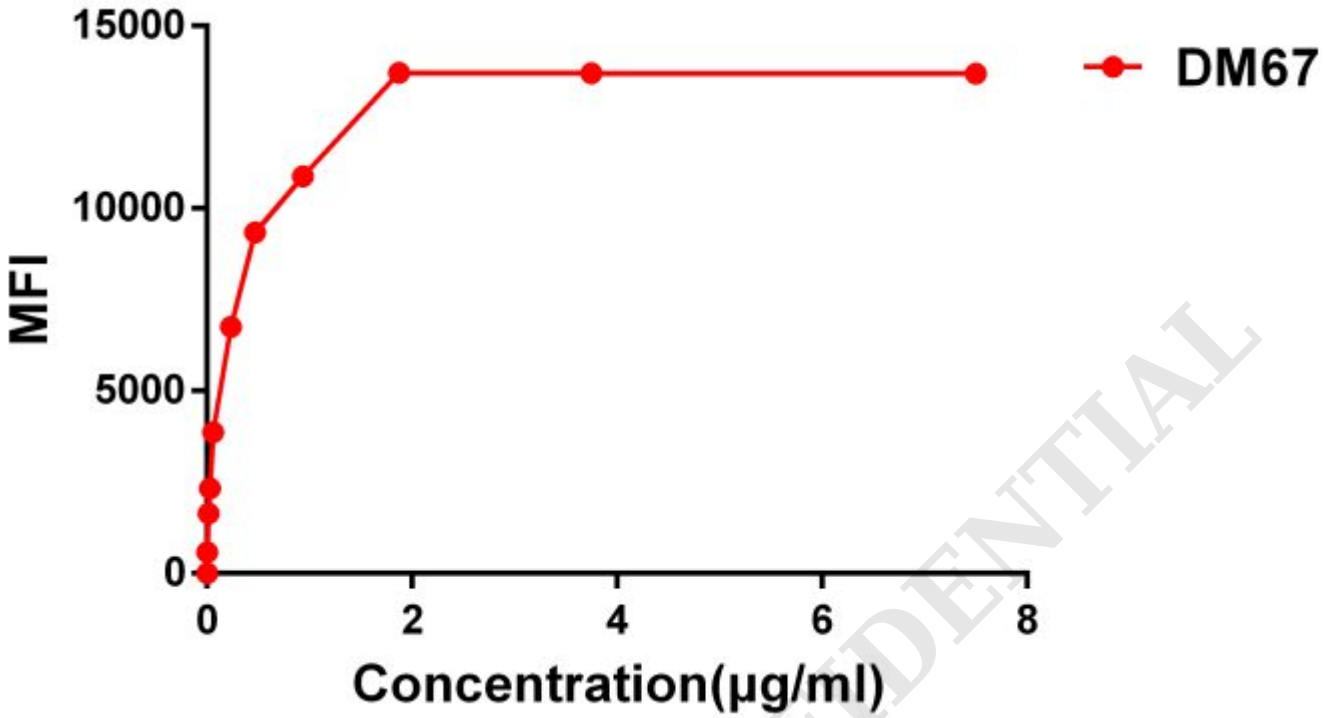

Figure 3. Flow cytometry data of serially titrated Rabbit anti-4-1BB monoclonal antibody **(clone: DM67)** on Expi 293 cell line transfected with human 4-1BB. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

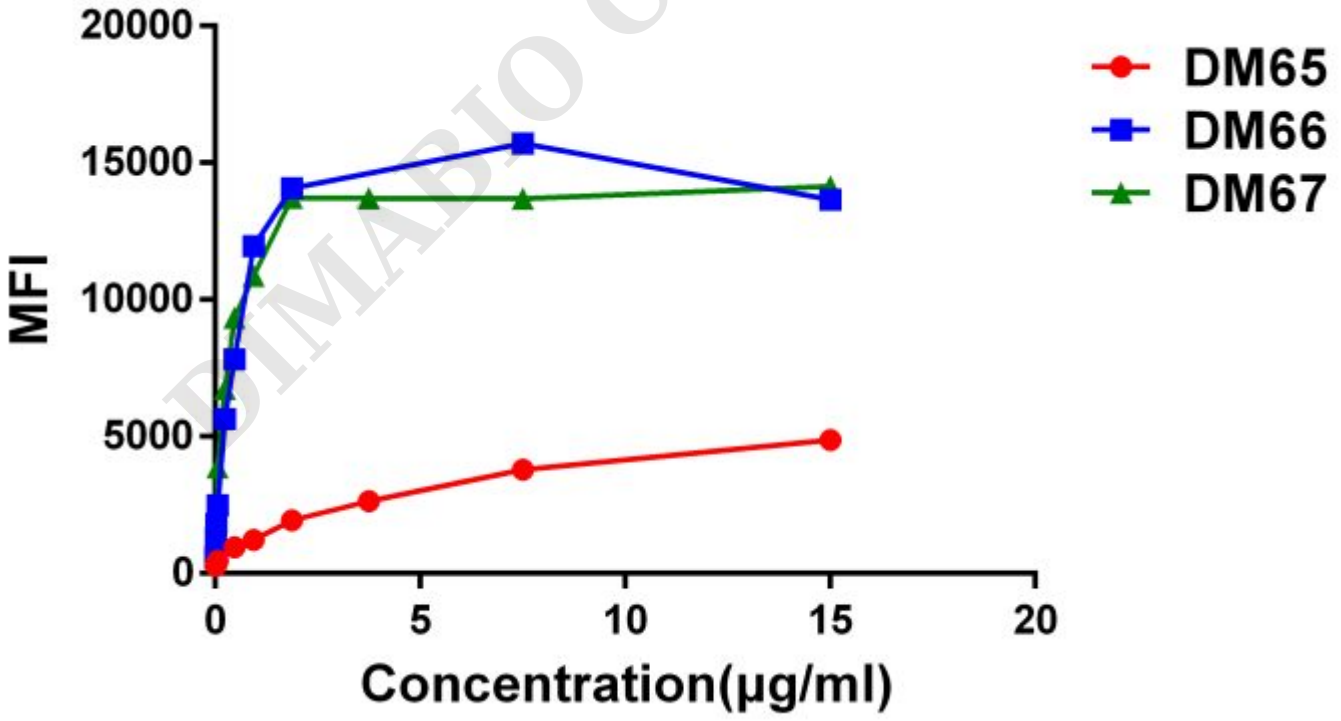

Figure 4. Affinity ranking of different Rabbit anti-4-1BB mAb clones by titration of different concentration onto Expi 293 cell line transfected with human 4-1BB. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

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