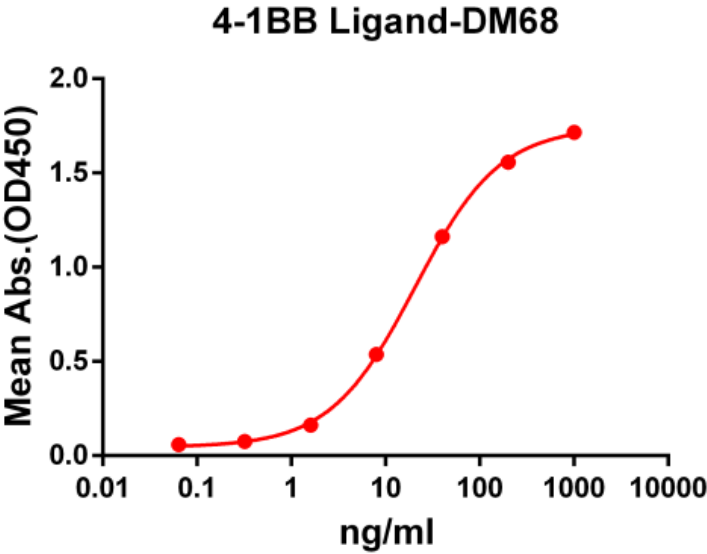


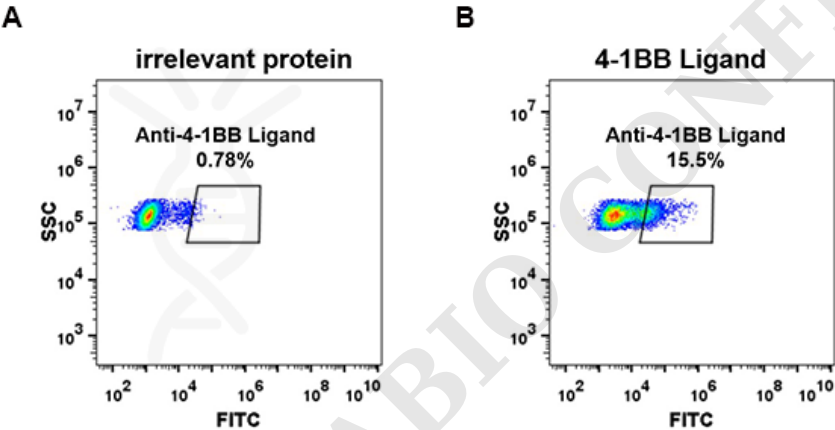
PRODUCT INFORMATION

Clone ID	DM68
Target	4-1BB Ligand
Synonyms	4-1BB Ligand;TNFSF9;CD137L
Host Species	Rabbit
Description	Anti-4-1BB Ligand antibody(DM68); Rabbit mAb
Delivery	In Stock
Uniprot ID	P41273
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 cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This transmembrane cytokine is a bidirectional signal transducer that acts as a ligand for TNFRSF9:4-1BB; which is a costimulatory receptor molecule in T lymphocytes. This cytokine and its receptor are involved in the antigen presentation process and in the generation of cytotoxic T cells. The receptor TNFRSF9:4-1BB is absent from resting T lymphocytes but rapidly expressed upon antigenic stimulation. The ligand encoded by this gene; TNFSF9:4-1BBL; has been shown to reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses in CD8 T cells. This cytokine is expressed in carcinoma cell lines; and is thought to be involved in T cell-tumor cell interaction.
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.

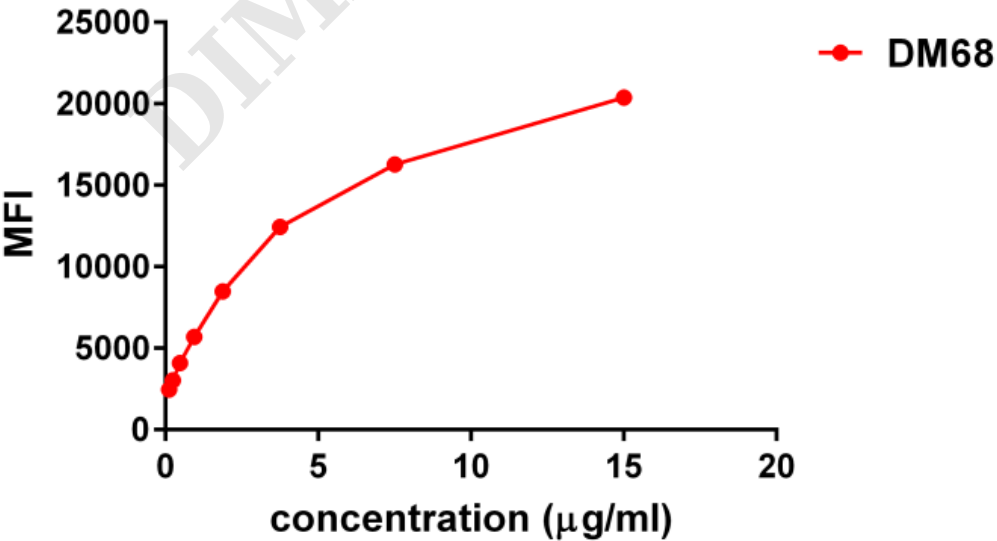




**Figure 1.** ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human 4-1BB Ligand protein, mFc-His tagged protein ([getskuurl sku="PME100054"]) can bind Rabbit anti-4-1BB Ligand monoclonal antibody (**clone: DM68**) in a linear range of 1-100 ng/ml.



**Figure 2.** Expi 293 cell line transfected with irrelevant protein (**A**) and human 4-1BB Ligand (**B**) were surface stained with Rabbit anti-4-1BB Ligand monoclonal antibody 1µg/ml (**clone: DM68**) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.



**Figure 3.** Flow cytometry data of serially titrated Rabbit anti-4-1BB Ligand monoclonal antibody (**clone: DM68**) on Raji cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

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