

PRODUCT INFORMATION

Clone ID	DM78
Target	GITR
Synonyms	AITR; GITR; TNFRSF18; CD357
Host Species	Rabbit
Description	Anti-GITR antibody(DM78); Rabbit mAb
Delivery	In Stock
Uniprot ID	Q9Y5U5
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	This gene encodes a member of the TNF-receptor superfamily. The encoded receptor has been shown to have increased expression upon T-cell activation; and it is thought to play a key role in dominant immunological self-tolerance maintained by CD25()CD4() regulatory T cells. Knockout studies in mice also suggest the role of this receptor is in the regulation of CD3-driven T-cell activation and programmed cell death. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.
Usage	Research use only



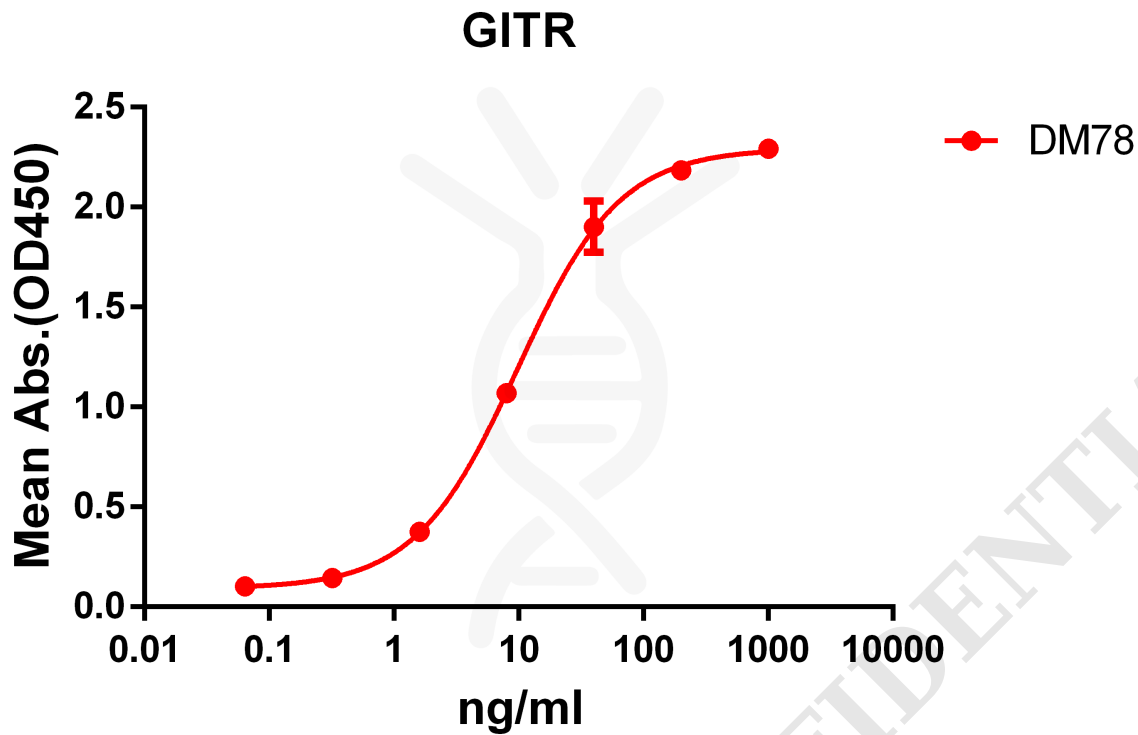


Figure 1. ELISA plate pre-coated by 2 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$) Human GITR protein, hFc-His tagged protein PME100018 can bind Rabbit anti-GITR monoclonal antibody (clone: DM78) in a linear range of 1-100 ng/ml.

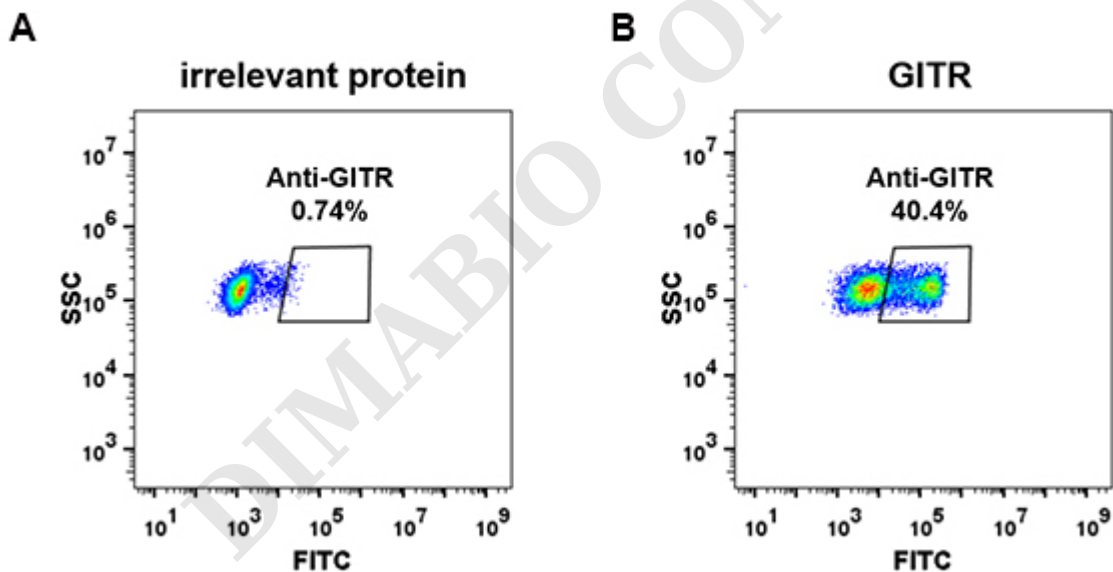


Figure 2. Expi 293 cell line transfected with irrelevant protein (A) and human GITR (B) were surface stained with Rabbit anti-GITR monoclonal antibody 1 $\mu\text{g/ml}$ (clone: DM78) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.



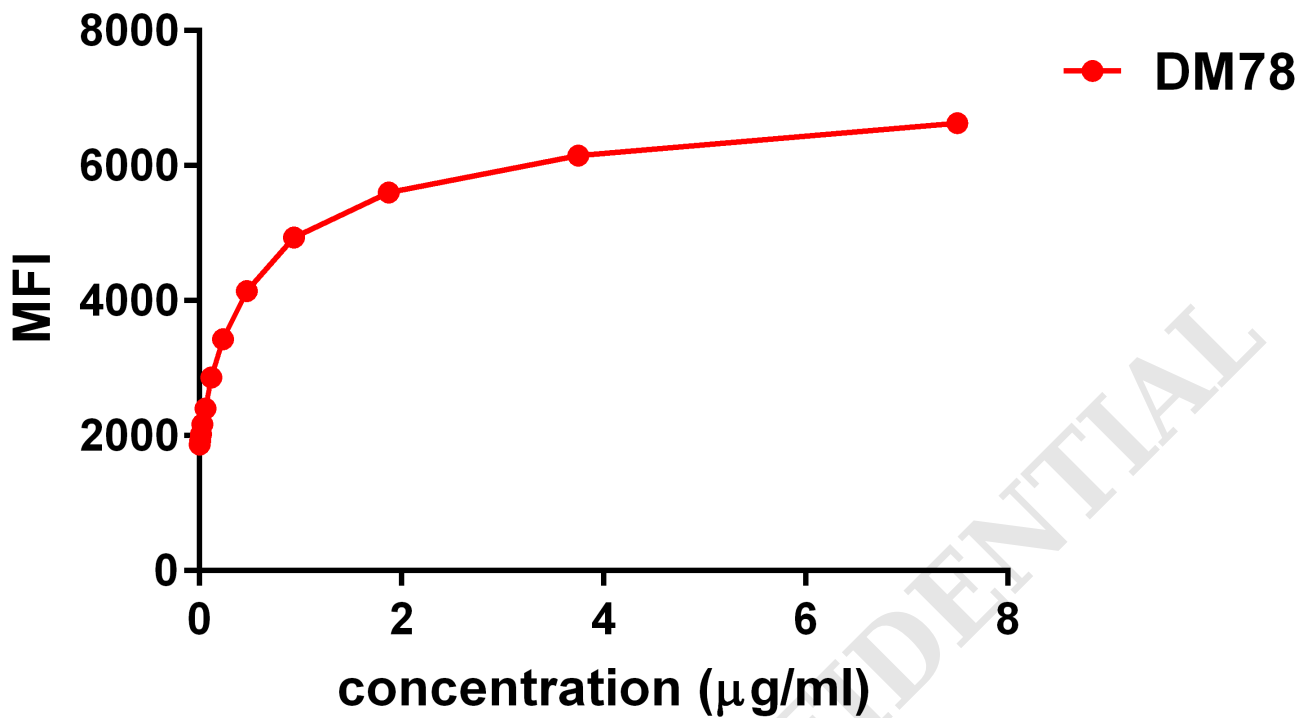


Figure 3. Flow cytometry data of serially titrated Rabbit anti-GITR monoclonal antibody (clone: DM78) on PC3 cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

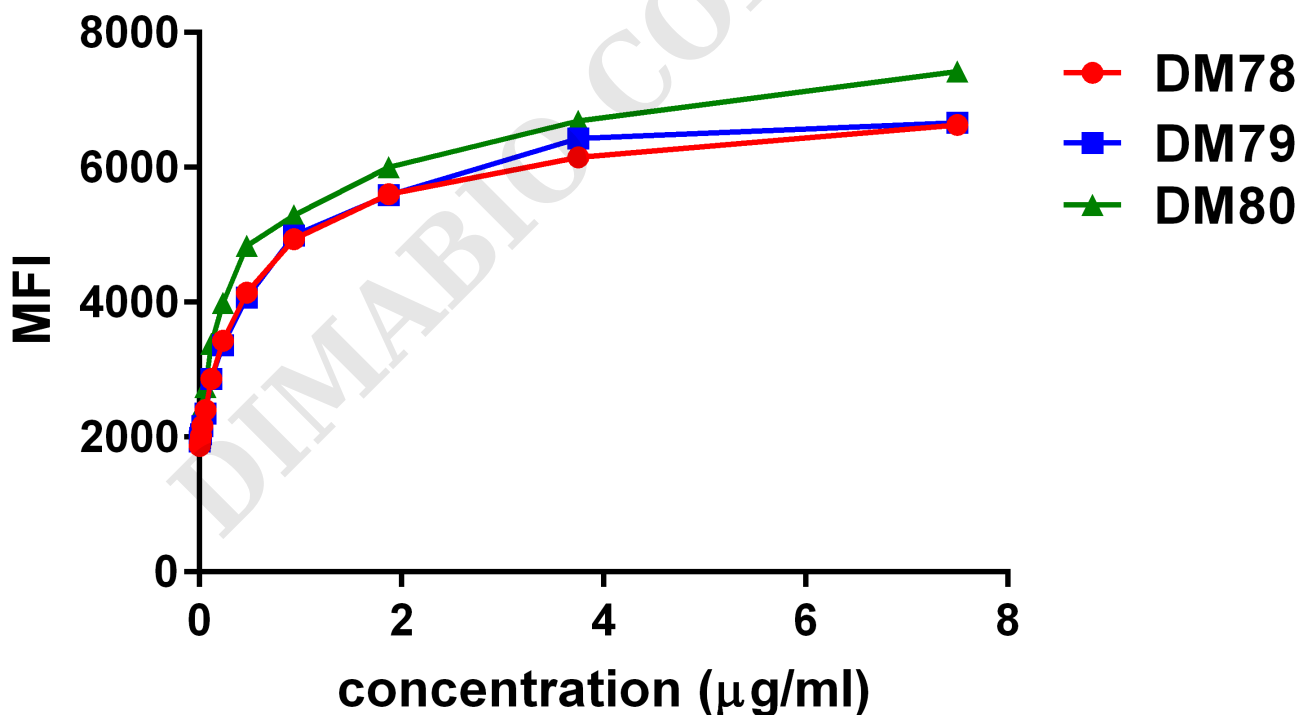


Figure 4. Affinity ranking of different Rabbit anti-GITR mAb clones by titration of different concentration onto PC3 cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.



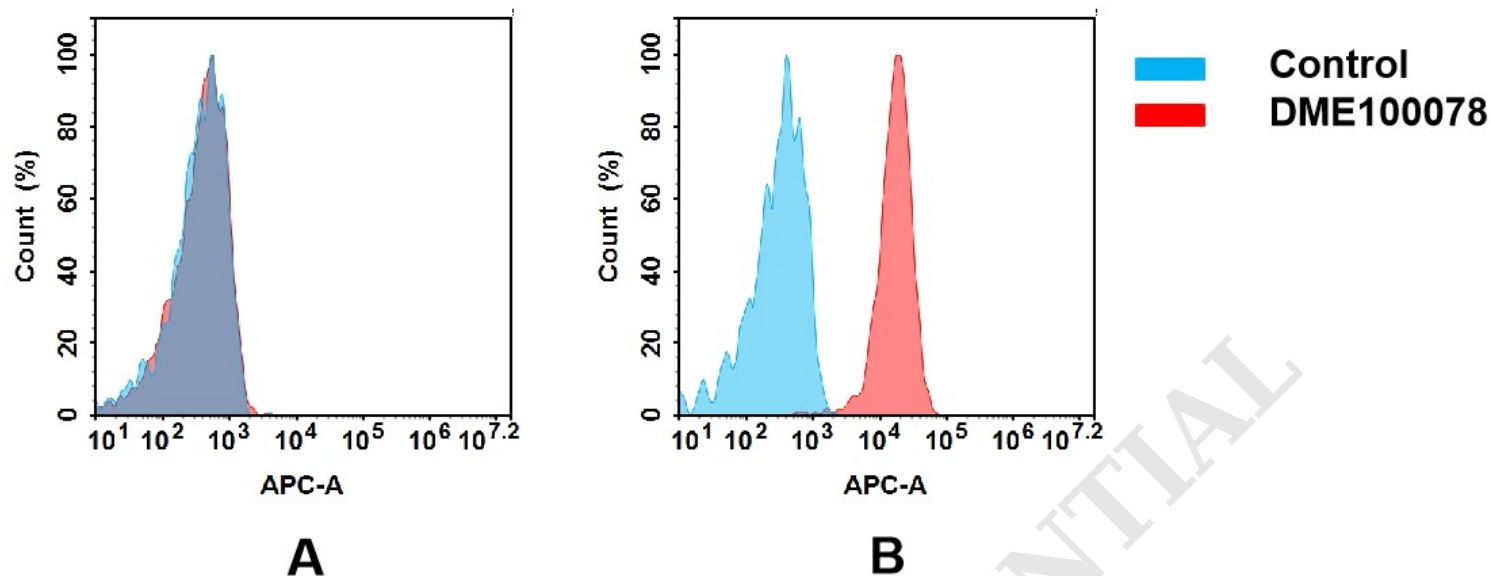


Figure 5. Flow cytometry analysis of antigen binding of rabbit anti-human GITR mAb(DME100078).

(A) DME100078 does not bind to 293T cells that do not express GITR.

(B) A clear peak shift of DME100078 was seen compared to the control when incubated with GITR-expressing 8226 cells, indicating strong binding of DME100078 to GITR. Antibodies were incubated at 2 μ g/mL.

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