DIMA BIOTECH

PRODUCT INFORMATION

Clone ID	DM93
Target	BTN3A1
Synonyms	BTN3A1; BTF5; CD277; BTN3.1; BT3.1
Host Species	Rabbit
Description	Anti-BTN3A1 antibody(DM93); Rabbit mAb
Delivery	In Stock
Uniprot ID	O00481
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 butyrophilin (BTN) genes are a group of major histocompatibility complex (MHC)-associated genes that encode type I membrane proteins with 2 extracellular immunoglobulin (Ig) domains and an intracellular B30.2 (PRYSPRY) domain. Three subfamilies of human BTN genes are located in the MHC class I region: the single-copy BTN1A1 gene (MIM 601610) and the BTN2 (e.g.; BTN2A1; MIM 613590) and BTN3 (e.g.; BNT3A1) genes; which have undergone tandem duplication; resulting in 3 copies of each.
Usage	Research use only

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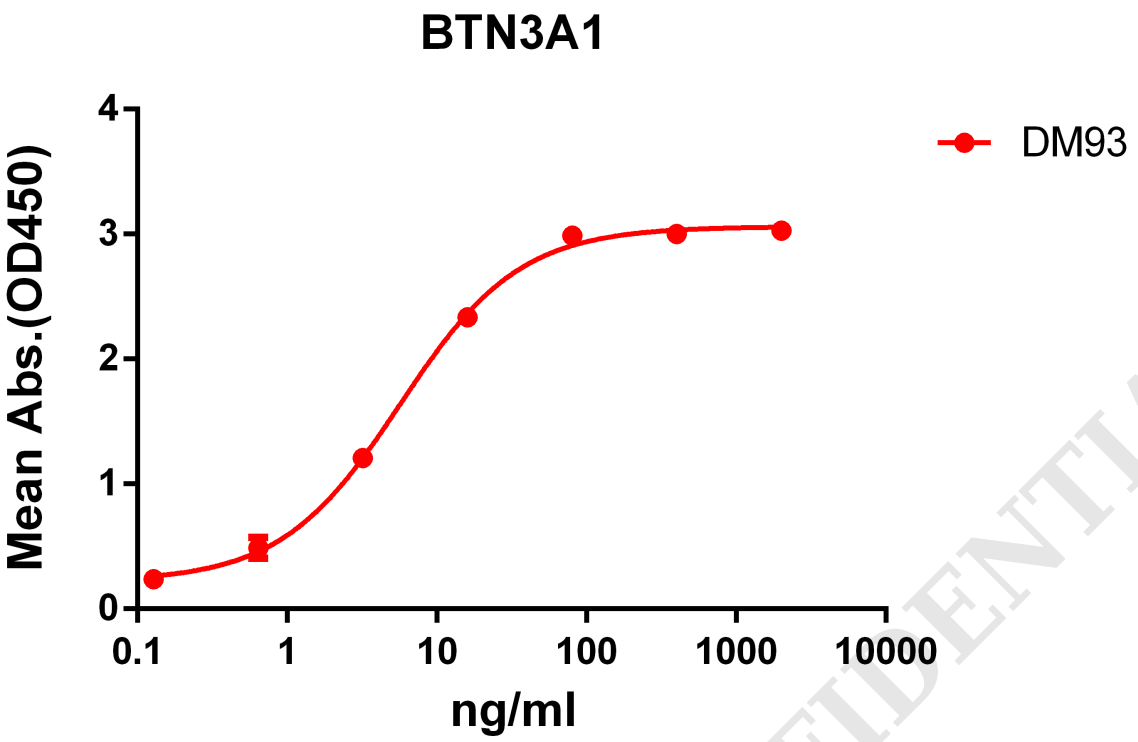

Figure 1. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human BTN3A1 protein, mFc-His tagged protein PME100056 can bind Rabbit anti-BTN3A1 monoclonal antibody (clone: DM93) in a linear range of 0.64-80 ng/ml.

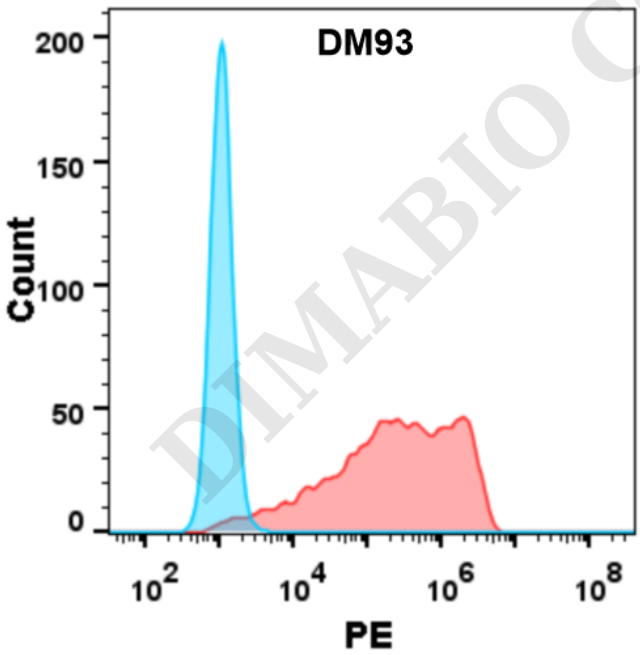

Figure 2. Flow cytometry analysis with Anti-BTN3A1 (DM93) on Expi293 cells transfected with human BTN3A1 (Red histogram) or Expi293 transfected with irrelevant protein (Blue histogram).

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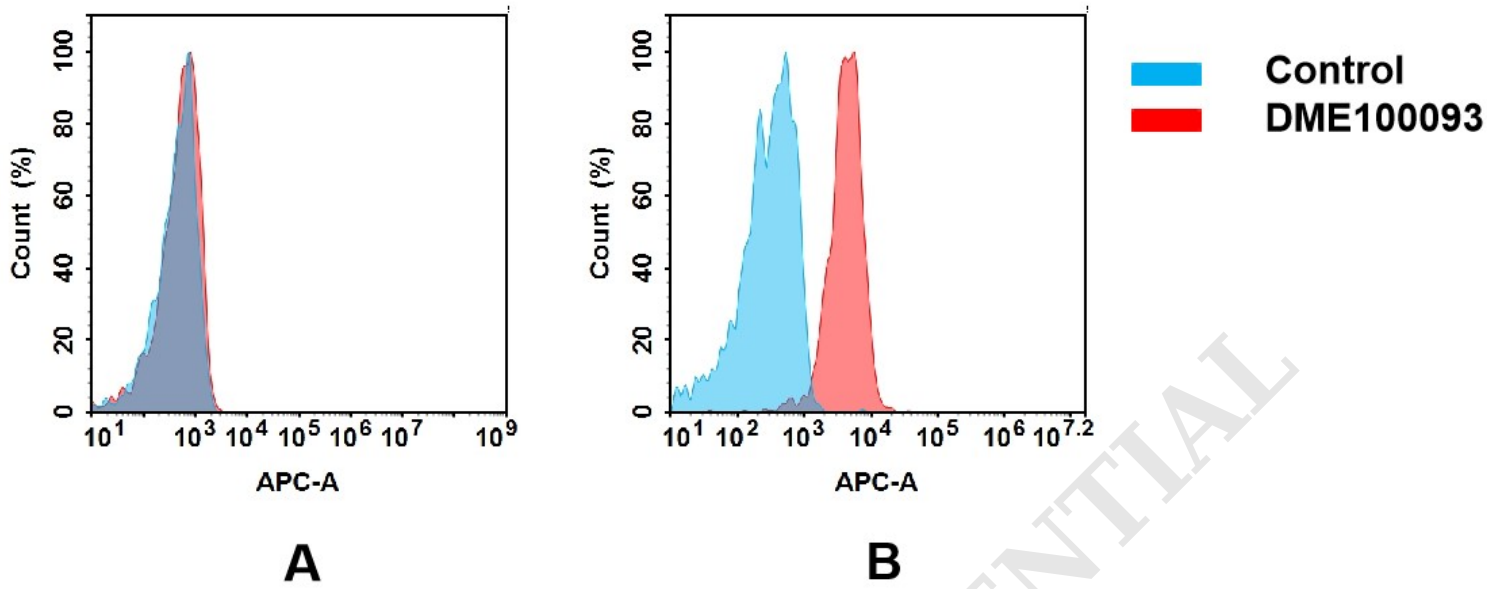

Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human BTN3A1 mAb(DME100093).

(A) DME100093 does not bind to MCF-7 cells that do not express BTN3A1.
(B) A clear peak shift of DME100093 was seen compared to the control when incubated with BTN3A1-expressing 8226 cells, indicating strong binding of DME100093 to BTN3A1. Antibodies were incubated at 2 ug/mL.

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