

**PRODUCT INFORMATION**

<b>Clone ID</b>	DM93
<b>Target</b>	BTN3A1
<b>Synonyms</b>	BTN3A1; BTF5; CD277; BTN3.1; BT3.1
<b>Host Species</b>	Rabbit
<b>Description</b>	Anti-BTN3A1 antibody(DM93); Rabbit mAb
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	O00481
<b>IgG type</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Reactivity</b>	Human
<b>Applications</b>	ELISA; Flow Cyt
<b>Recommended Dilutions</b>	ELISA 1:5000-10000; Flow Cyt 1:100
<b>Purification</b>	Purified from cell culture supernatant by affinity chromatography
<b>Endotoxin</b>	Less than 1.0 EU/μg by the LAL method. For <1 EU/mg requirements, please contact us for customization.
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage&amp;Shipping</b>	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.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
<b>Background</b>	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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated
<b>DIMA Disclaimer</b>	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 scr



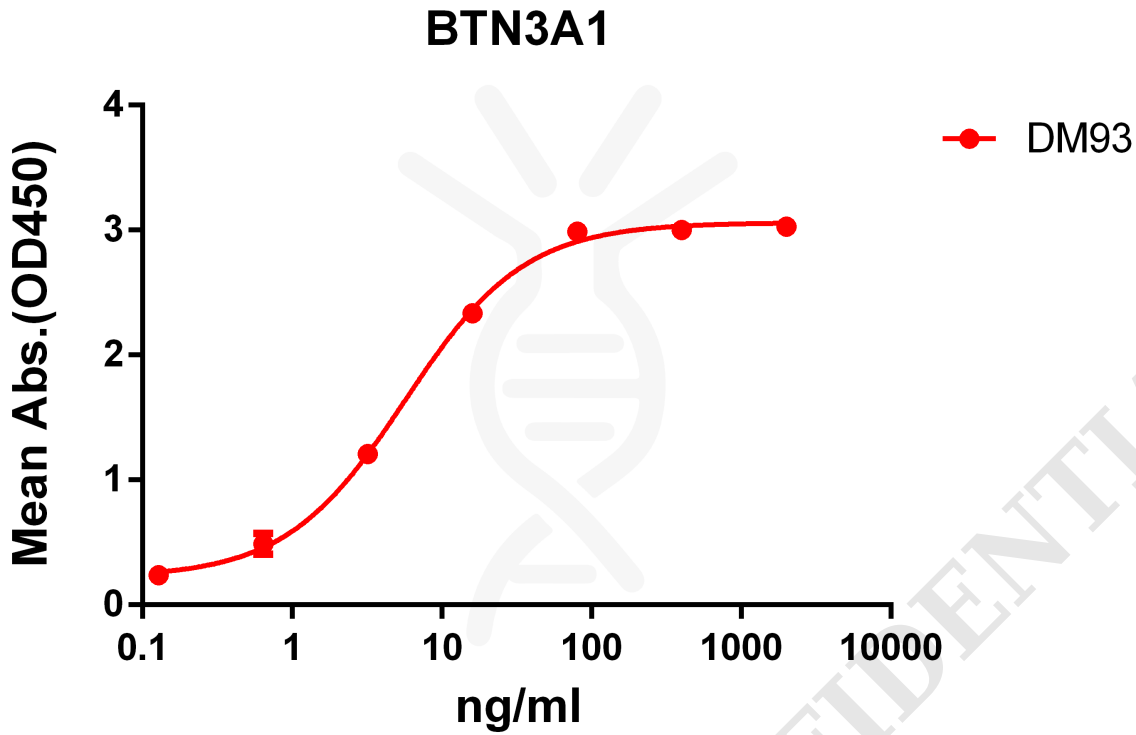


Figure 1. ELISA plate pre-coated by 2  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) Human BTN3A1 protein, mFc-His tagged protein PME100056 can bind Rabbit anti-BTN3A1 monoclonal antibody ( clone: DM93) in a linear range of 0.64-80 ng/ml.

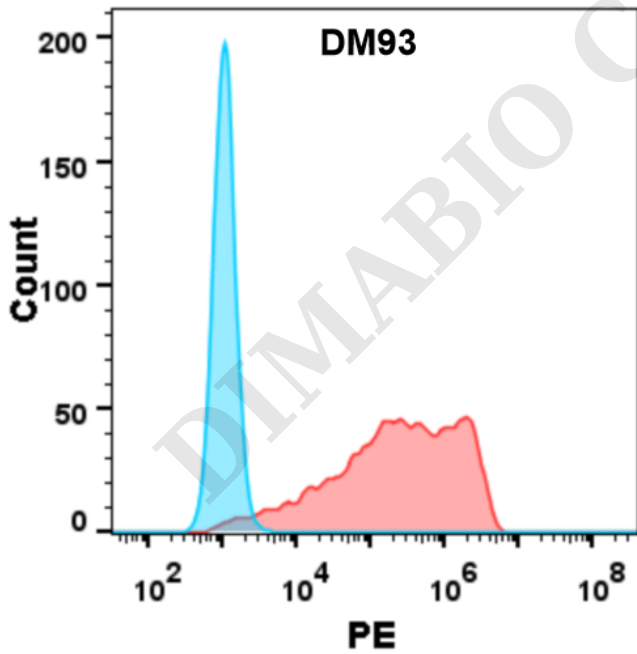


Figure 2. Flow cytometry analysis with Anti-BTN3A1 (DM93) on HEK293 cells transfected with human BTN3A1 (Red histogram) or HEK293 transfected with irrelevant protein (Blue histogram).



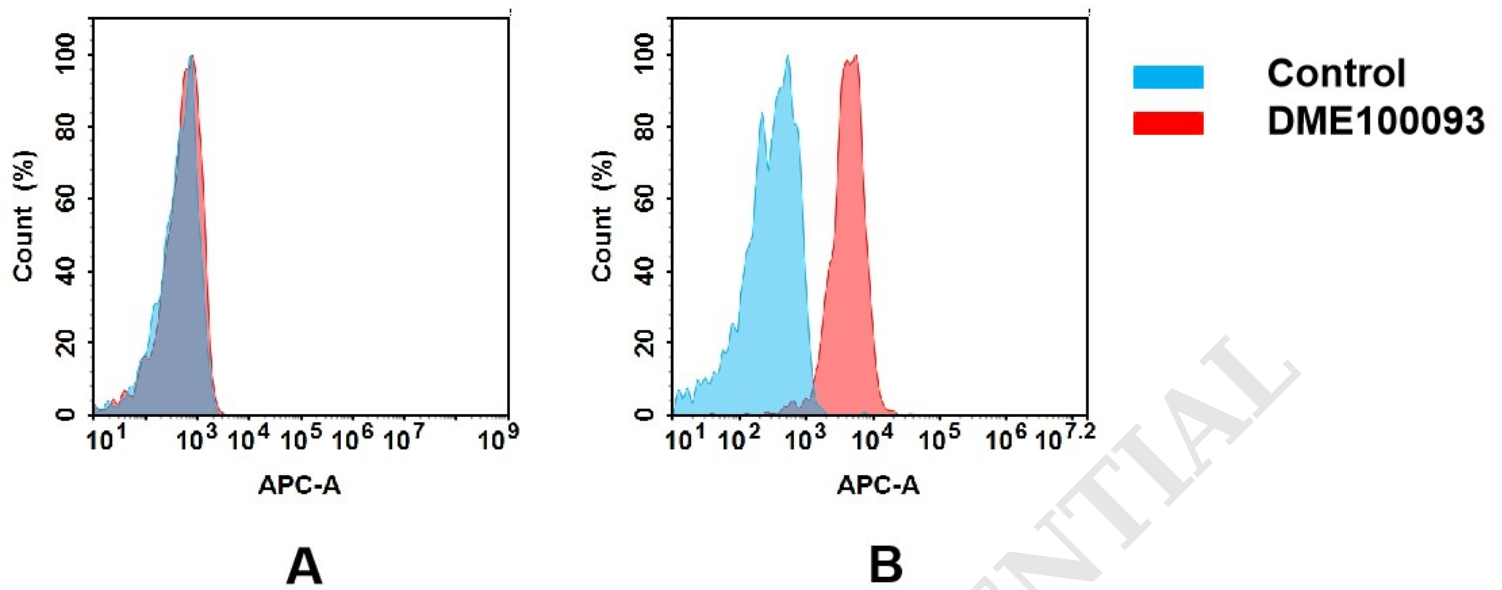


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human BTN3A1 mAb(DME100093).

(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  $\mu$ g/mL.

