

PRODUCT INFORMATION

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| 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 |
| Endotoxin | Less than 1.0 EU/μg by the LAL method. For <1 EU/mg requirements, please contact us for customization. |
| 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 |
| 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 scr |



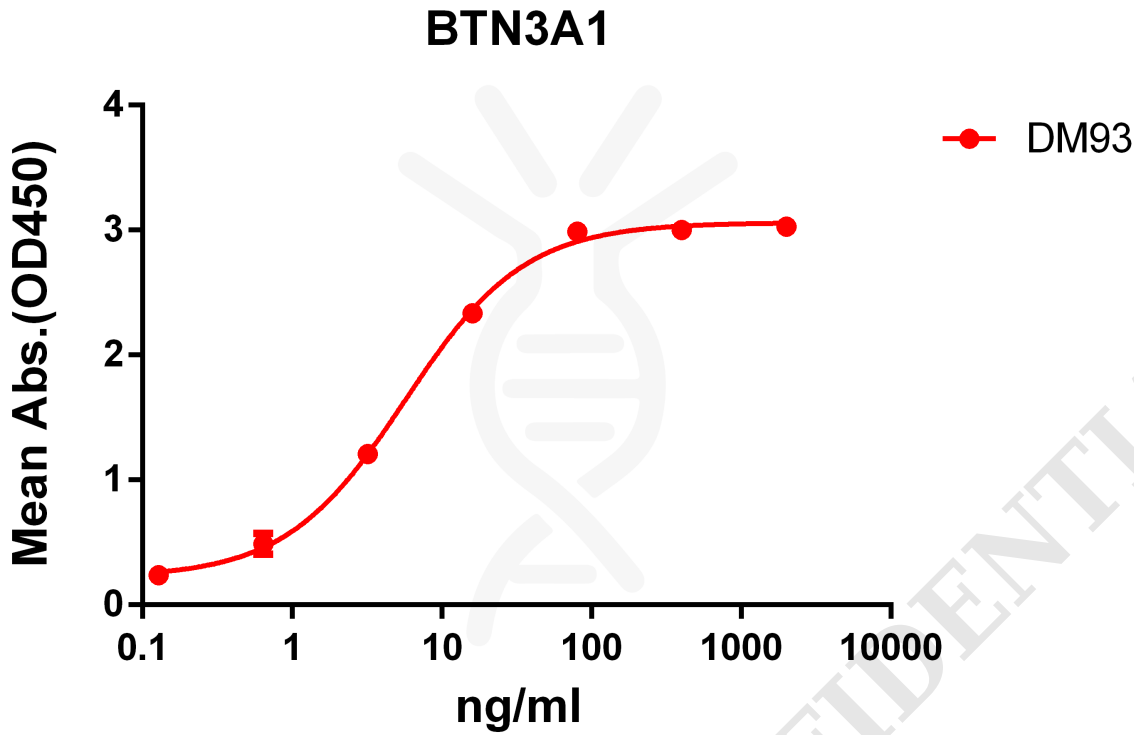


Figure 1. ELISA plate pre-coated by 2 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$) Human BTN3A1 protein, mFc-His tagged protein PME100056 can bind Rabbit anti-BTN3A1 monoclonal antibody (clone: DM93) in a linear range of 0.64-80 ng/ml.

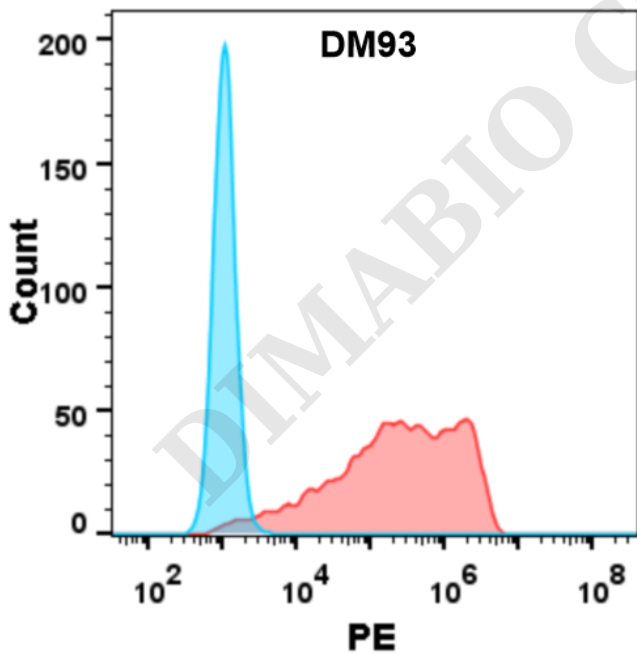


Figure 2. Flow cytometry analysis with Anti-BTN3A1 (DM93) on HEK293 cells transfected with human BTN3A1 (Red histogram) or HEK293 transfected with irrelevant protein (Blue histogram).



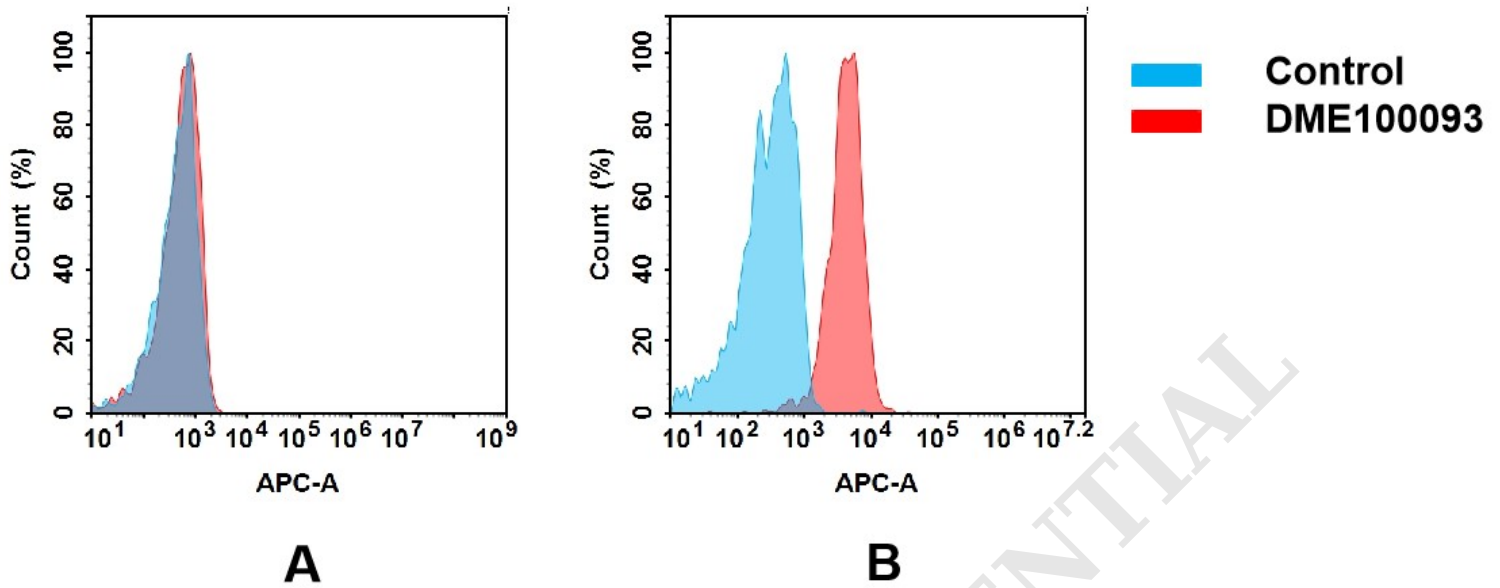


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human BTN3A1 mAb(DME100093).

(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 μ g/mL.

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