

**PRODUCT INFORMATION**

<b>Clone ID</b>	DM94
<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(DM94); 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; WB
<b>Recommended Dilutions</b>	ELISA 1:5000-10000; Flow Cyt 1:100; WB 1:1000
<b>Purification</b>	Purified from cell culture supernatant by affinity chromatography
<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>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



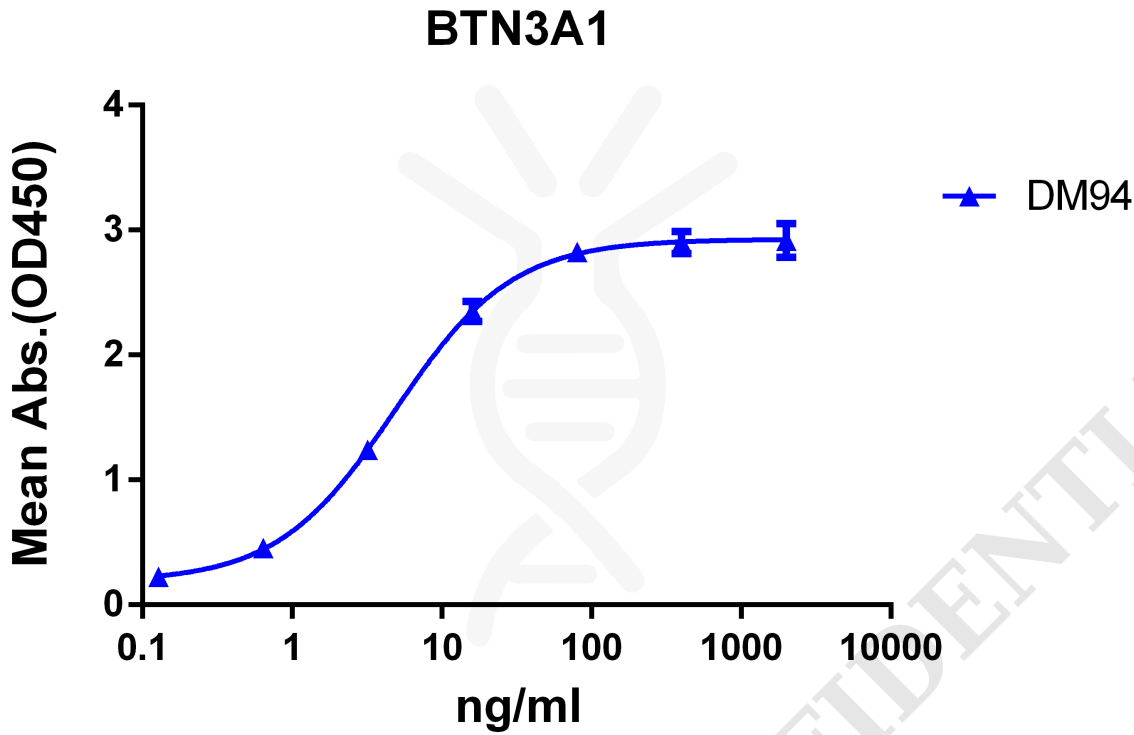


Figure 1. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human BTN3A1 protein, mFc-His tagged protein PME100056 can bind Rabbit anti-BTN3A1 monoclonal antibody ( clone: DM94) in a linear range of 0.64-80 ng/ml.

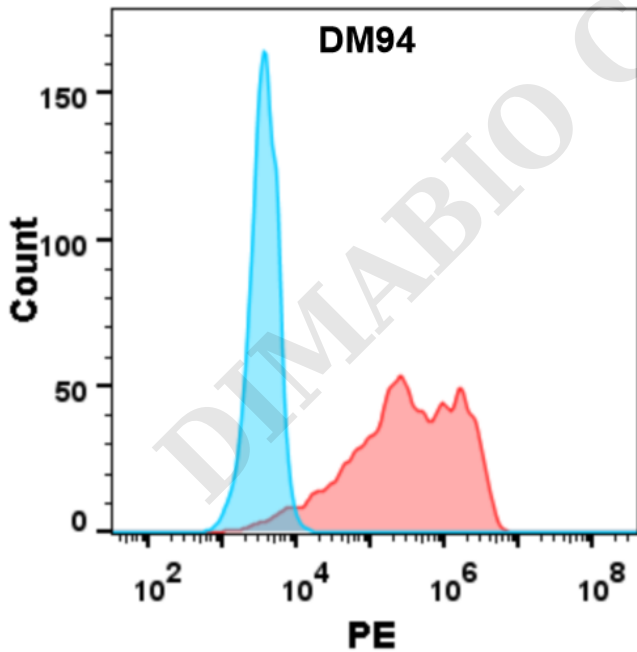


Figure 2. Flow cytometry analysis with Anti-BTN3A1 (DM94) on Expi293 cells transfected with human BTN3A1 (Red histogram) or Expi293 transfected with irrelevant protein (Blue histogram).



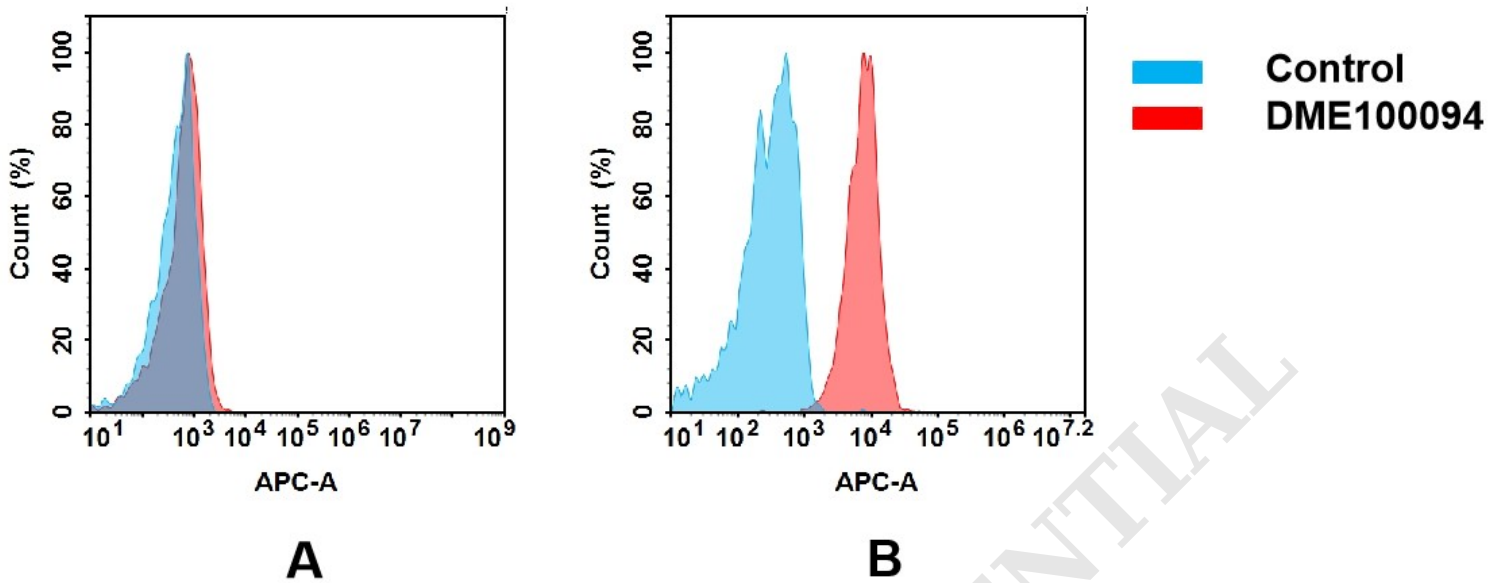


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human BTN3A1 mAb(DME100094).

(A) DME100094 does not bind to MCF-7 cells that do not express BTN3A1.

(B) A clear peak shift of DME100094 was seen compared to the control when incubated with BTN3A1-expressing 8226 cells, indicating strong binding of DME100094 to BTN3A1. Antibodies were incubated at 2 µg/mL.

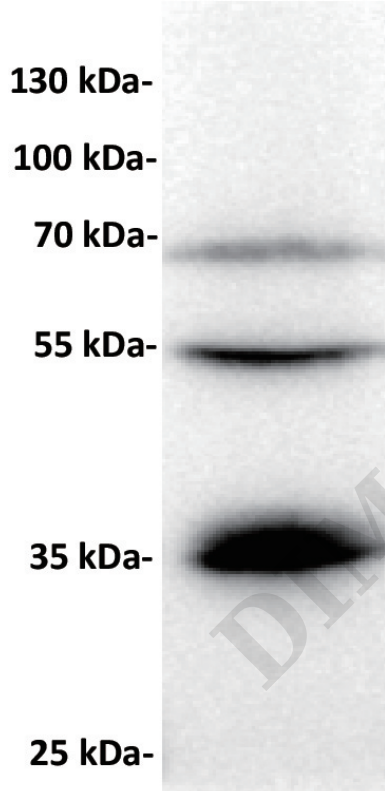


Figure 4. Anti-BTN3A1 antibody (SKU# DME100094) at 1/1000 dilution

Lane : RPMI8226, whole cell lysate

Secondary : Goat Anti-Rabbit IgG H&L (HRP) at 1/5000 dilution

Predicted band size: 33 kDa

Observed band size: 35-54-68 kDa

