

## PRODUCT INFORMATION

<b>Clone ID</b>	DM101
<b>Target</b>	CD40
<b>Synonyms</b>	CD40; Bp50; CDW40; MGC9013; TNFRSF5; p50
<b>Host Species</b>	Rabbit
<b>Description</b>	Anti-CD40 antibody(DM101); Rabbit mAb
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P25942
<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>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>	This gene is a member of the TNF-receptor superfamily. The encoded protein is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching; memory B cell development; and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand; which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation; and thus is thought to be an early event in Alzheimer disease pathogenesis. Mutations affecting this gene are the cause of autosomal recessive hyper-IgM immunodeficiency type 3 (HIGM3). Multiple alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



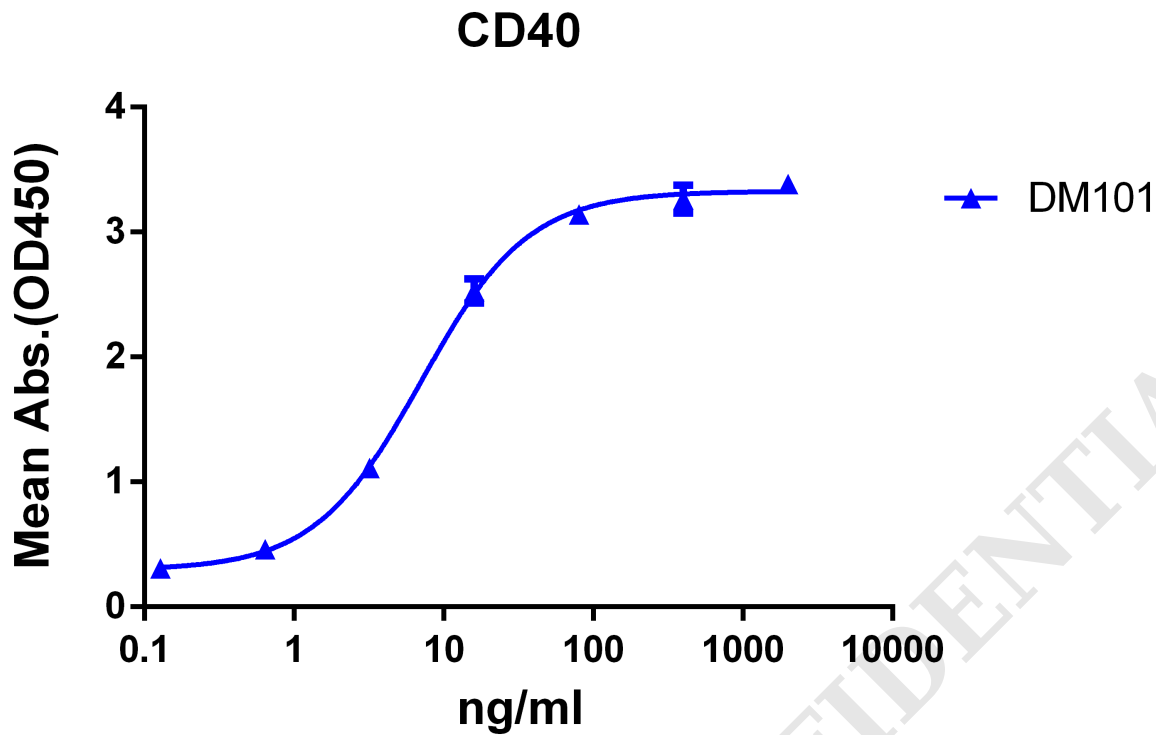


Figure 1. ELISA plate pre-coated by 2  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) Human CD40 protein, mFc-His tagged protein PME100015 can bind Rabbit anti-CD40 monoclonal antibody ( clone: DM101) in a linear range of 0.64-80 ng/ml.

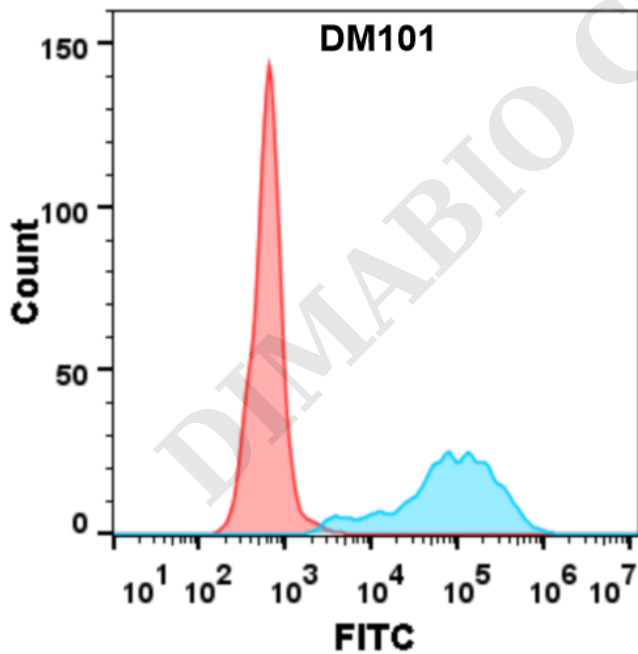


Figure 2. A. Flow cytometry analysis with Anti-CD40 ( DM101) on Expi293 cells transfected with human CD40 ( Blue histogram) or Expi293 transfected with irrelevant protein ( Red histogram).



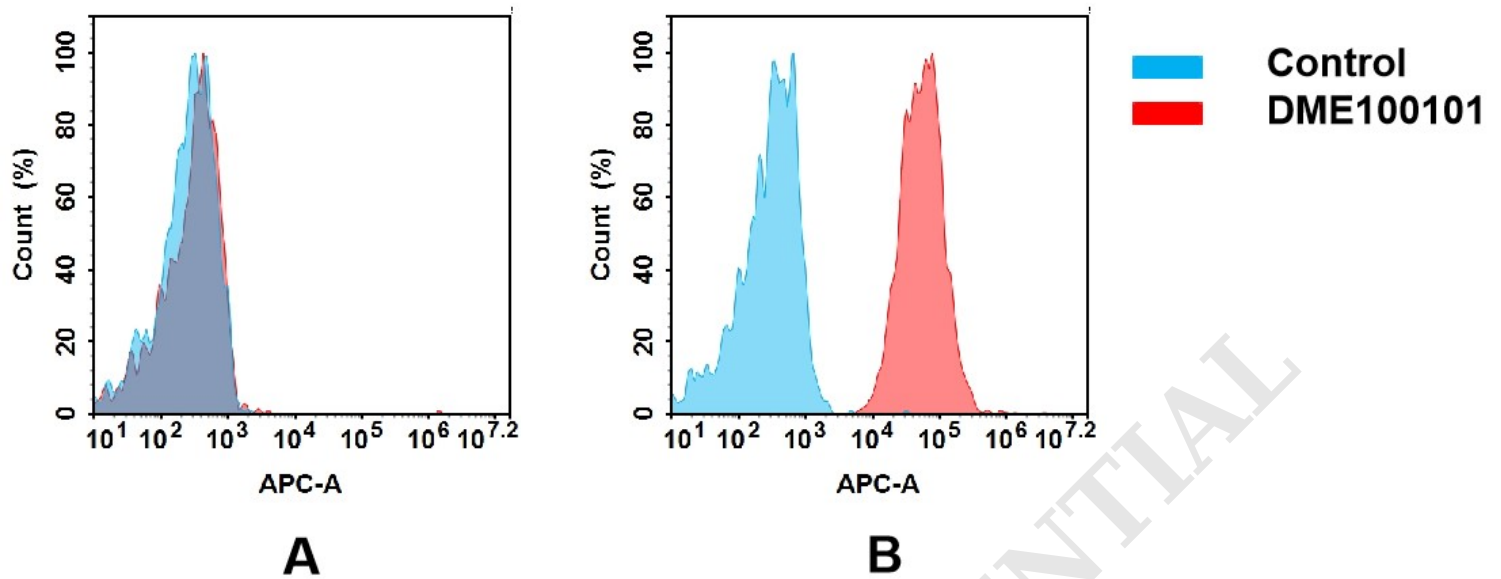


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human CD40 mAb(DME100101).

(A) DME100101 does not bind to Jurkat cells that do not express CD40.

(B) A clear peak shift of DME100101 was seen compared to the control when incubated with CD40-expressing Raji cells, indicating strong binding of DME100101 to CD40. Antibodies were incubated at 2  $\mu$ g/mL.

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