

PRODUCT INFORMATION

Clone ID	DM4
Target	BCMA
Synonyms	TNFRSF17
Host Species	Rabbit
Description	Anti-BCMA antibody(DM4); Rabbit mAb
Delivery	In Stock
Uniprot ID	Q02223
IgG type	Rabbit IgG
Clonality	Monoclonal
Reactivity	Human
Applications	ELISA; Flow Cyt; IF; IP
Recommended Dilutions	Flow Cyt 1:100; IP 1:30
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 protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is preferentially expressed in mature B lymphocytes; and may be important for B cell development and autoimmune response. This receptor has been shown to specifically bind to the tumor necrosis factor (ligand) superfamily; member 13b (TNFSF13B:TALL-1:BAFF); and to lead to NF-kappaB and MAPK8/JNK activation. This receptor also binds to various TRAF family members; and thus may transduce signals for cell survival and proliferation. [provided by RefSeq; Jul 2008]
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 scrutinizing all patent application to ensure no IP infringement.



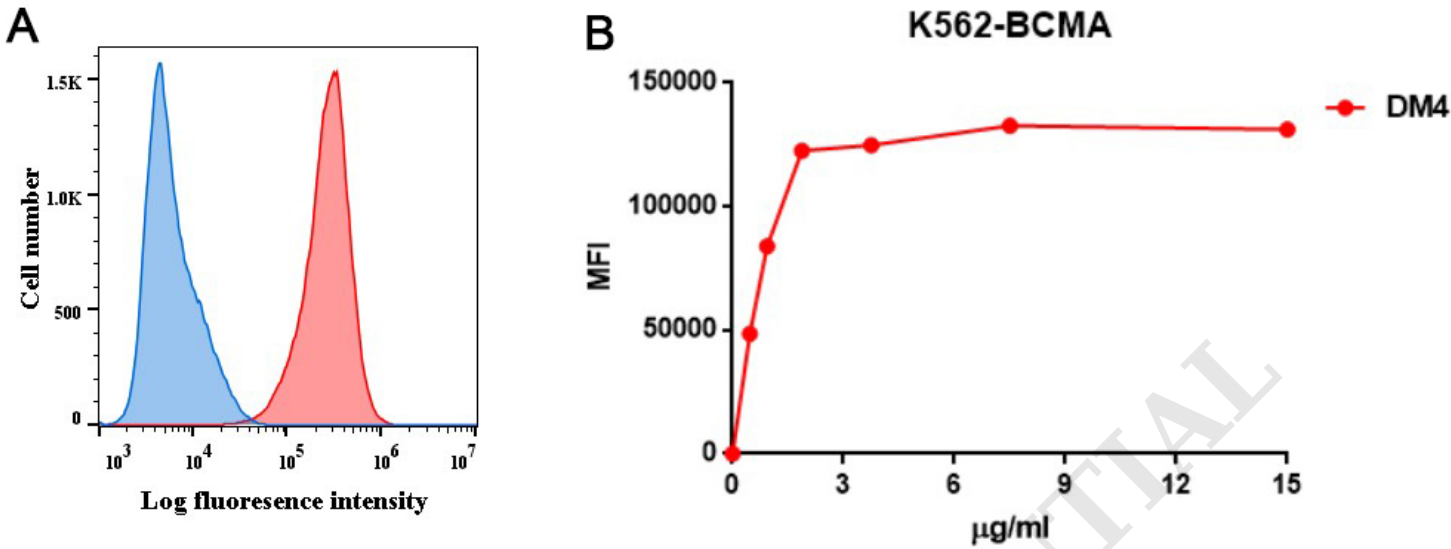


Figure 1. A. Flow cytometry analysis with anti-BCMA (DM4) on K562-BCMA (Red histogram) (K562 cells stably transduced by human BCMA full length gene) and K562 (Negative control cell line) (Blue histogram). B. Flow cytometry data of serially titrated anti-BCMA (DM4). The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

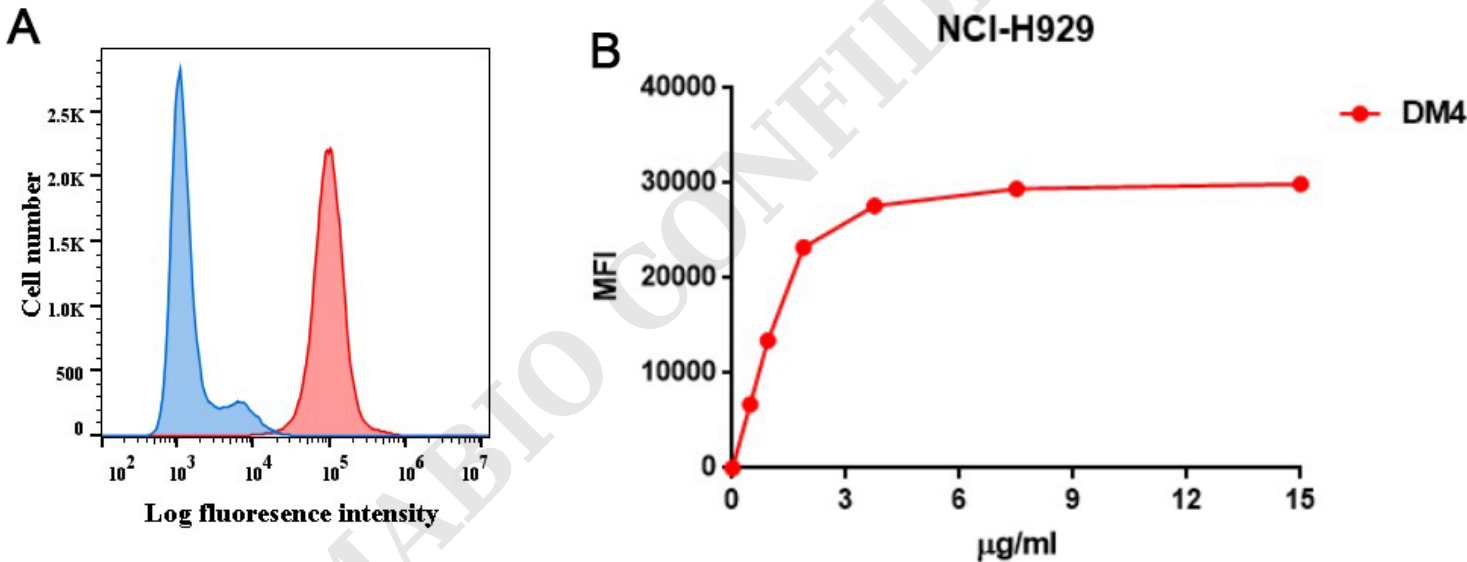


Figure 2. A. Flow cytometry analysis with anti-BCMA (DM4) on NCI-H929 cells (Red histogram) or rabbit control antibody on NCI-H929 cells (Blue histogram). B. Flow cytometry data of serially titrated anti-BCMA (DM4) on NCI-H929 cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.



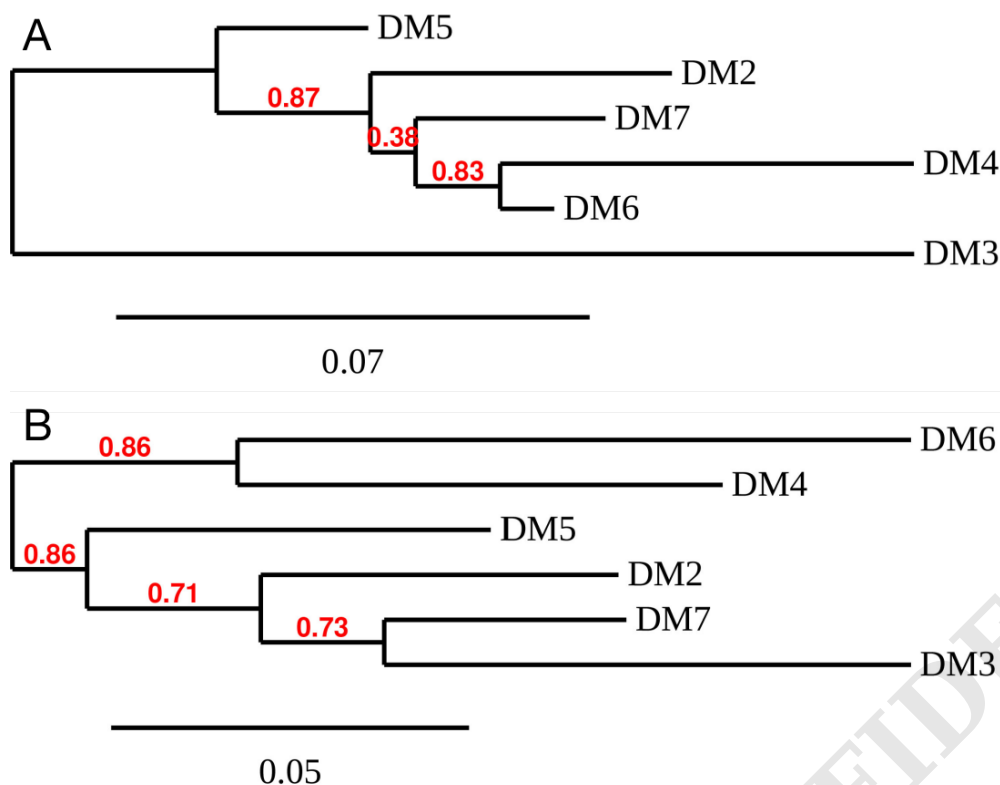


Figure 3. Phylogenetic analysis of different Anti-BCMA DimAb clones. A) heavy chain and B) Light chain.

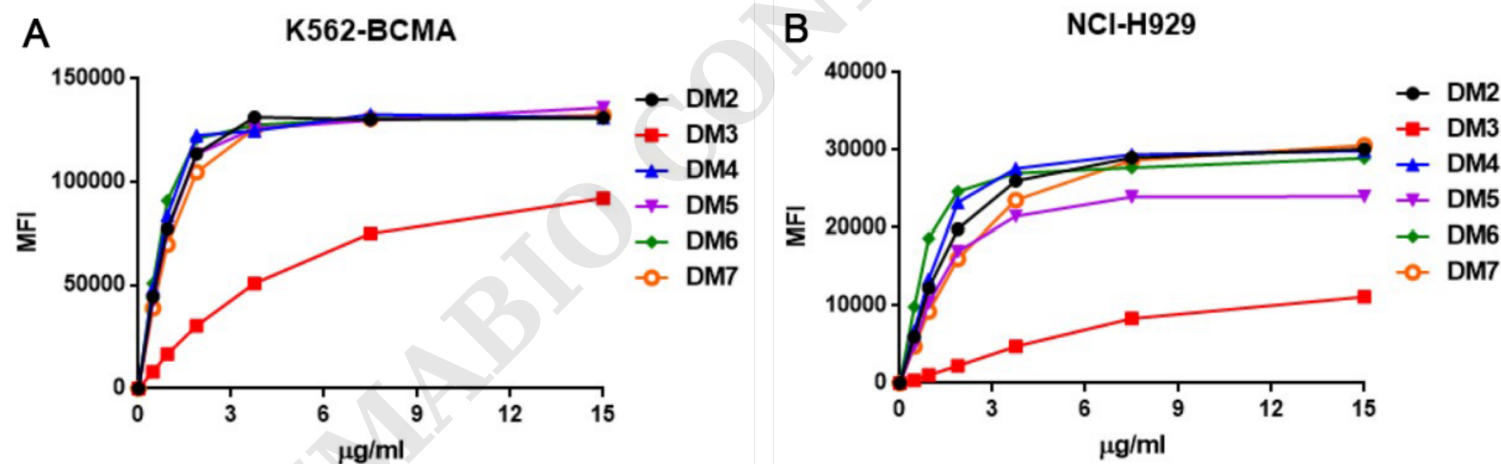


Figure 4. Affinity ranking of different DimAb clones by titration of rabbit DimAb antibody concentration onto K562-BCMA or NCI-H929 cells. Different concentrations of various anti-BCMA DimAb clones were incubated with K562-BCMA (A) or NCI-H929 cells (B) at 4°C. Bound rabbit IgG was detected in flow cytometry analysis. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.



Competitive ELISA

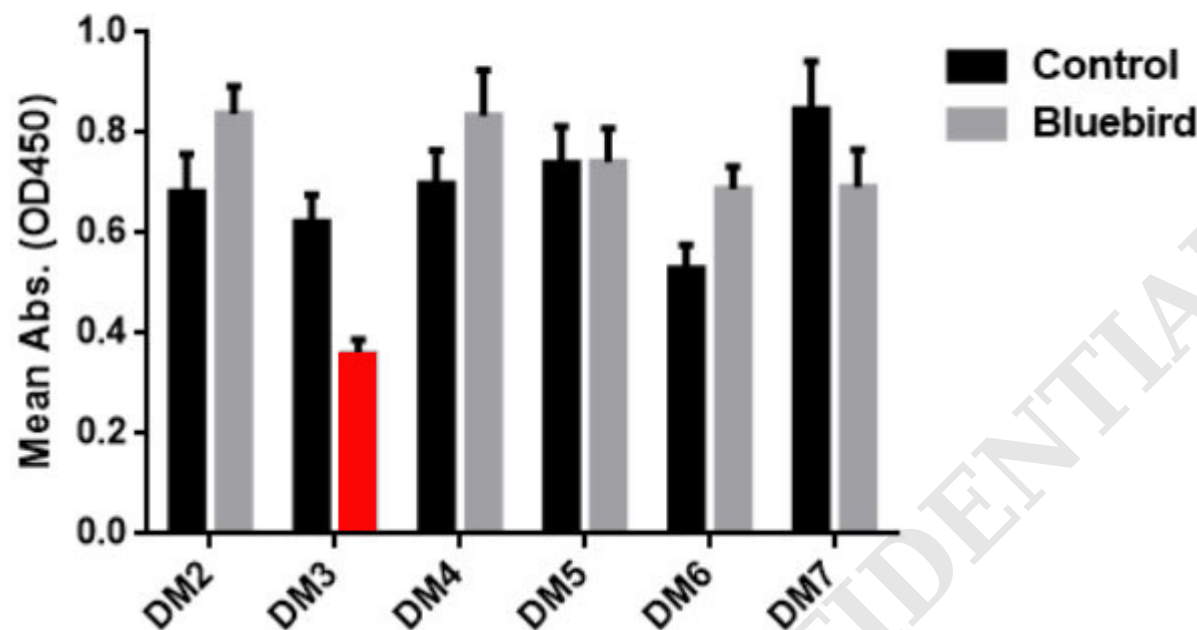


Figure 5. ELISA plate was coated with recombinant BCMA-hFc fusion protein PME100001 , followed by pre-blocking with huC11D5.3 antibody (Grey bar) or rabbit control IgG (Black bar), and then different rabbit DimAbs antibodies were added to check the competitive inhibition of huC11D5.3. DM3 clone exhibits the strongest inhibition (Red bar). This data indicated that DM3 bind to the same epitope as bb2121.

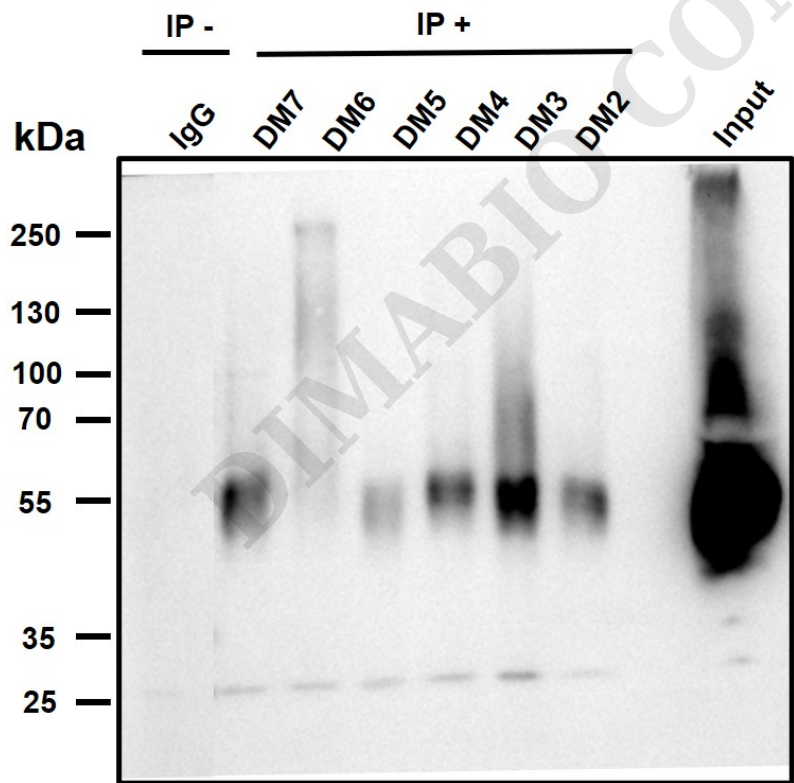
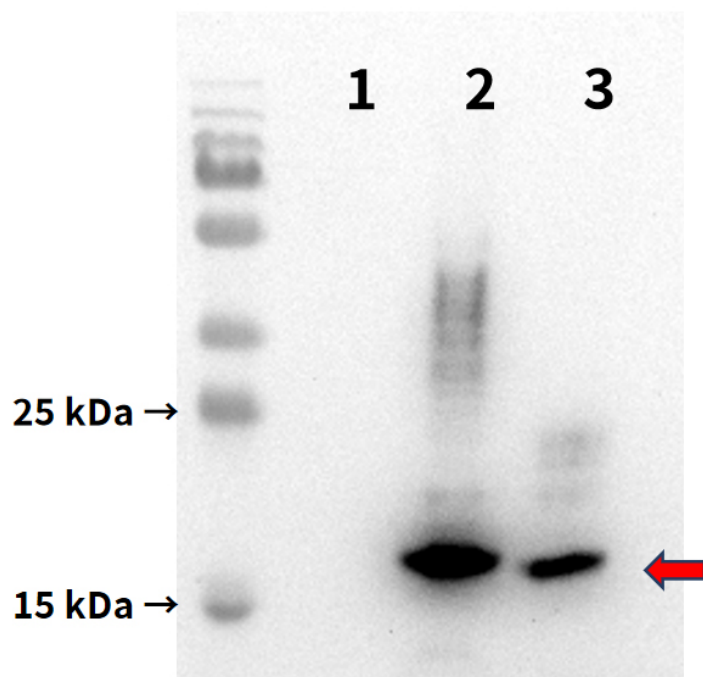


Figure 6. Immunoprecipitation analysis. Cellular overexpression lysates (made from HEK293F cells transfected with FLAG tagged human BCMA full length gene) were pre-incubated with 6 different rabbit DimAb clones and negative control IgG. The immunocomplexes were further pulled down by protein A beads, fractionated, and blotted with mouse anti-FLAG monoclonal antibody.





Anti-BCMA antibody SKU# DME100004 (DM4)

Figure 7. Western blot analysis of BCMA protein using Anti-BCMA antibody (Cat. DME100004) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H L) at 1:5000 dilution.

1. K562 cell lysate (negative control); 2. K562 cell lysate with overexpressed human BCMA proteins; 3. MM.1S cell lysate (native BCMA protein)

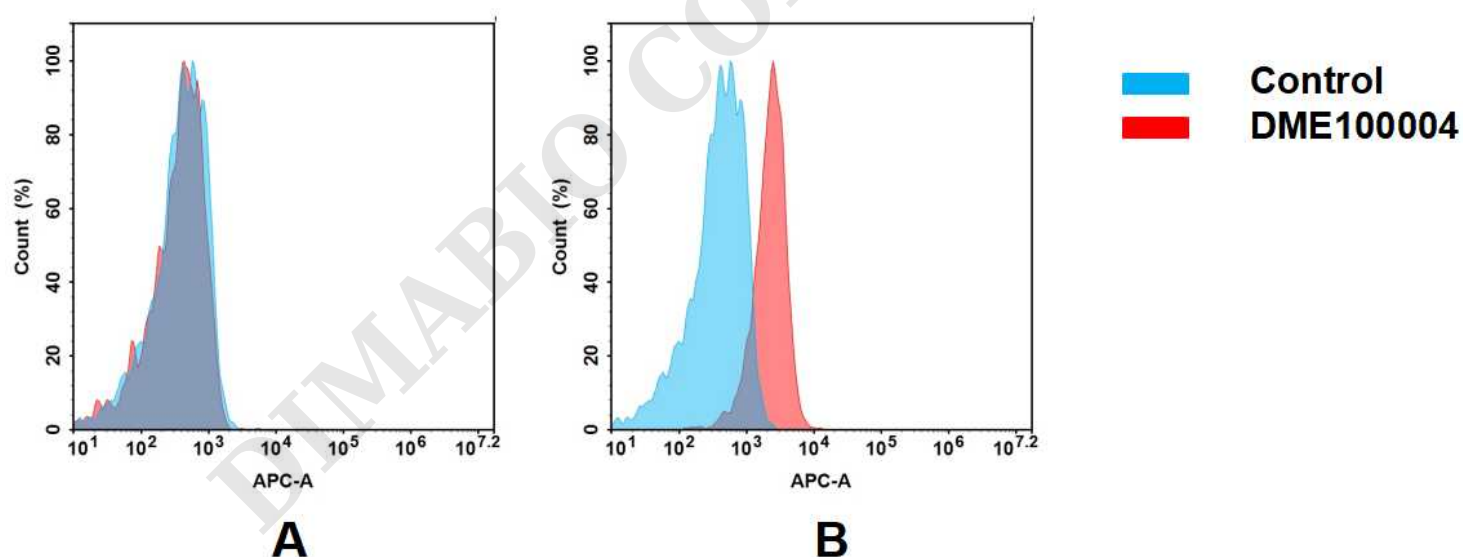


Figure 8. Flow cytometry analysis of antigen binding of rabbit anti-human BCMA mAb(DME100004).

(A) DME100004 does not bind to Jurkat cells that do not express BCMA.

(B) A clear peak shift of DME100004 was seen compared to the control when incubated with BCMA-expressing MM.1S cells, indicating strong binding of DME100004 to BCMA. Antibodies were incubated at 2 µg/mL.

