

## PRODUCT INFORMATION

<b>Target</b>	BAFF
<b>Synonyms</b>	TNFSF13B;BAFF;BLYS;CD257;DTL;TALL1;THANK;TNFSF20;ZTNF4;TALL-1
<b>Description</b>	Recombinant Human BAFF protein with N-terminal human Fc
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q9Y275
<b>Expression Host</b>	HEK293
<b>Tag</b>	N-Human Fc Tag
<b>Molecular Characterization</b>	hFc(Glu99-Ala330) BAFF(Ala134-Leu285)
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 43.2 kDa after removal of the signal peptide. The apparent molecular mass of hFc-BAFF is approximately 50-55 kDa due to glycosylation.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<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 protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptors TNFRSF13B/TACI, TNFRSF17/BCMA, and TNFRSF13C/BAFFR. This cytokine is expressed in B cell lineage cells, and acts as a potent B cell activator. It has been also shown to play an important role in the proliferation and differentiation of B cells. Alternatively spliced transcript variants encoding distinct isoforms have been identified.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



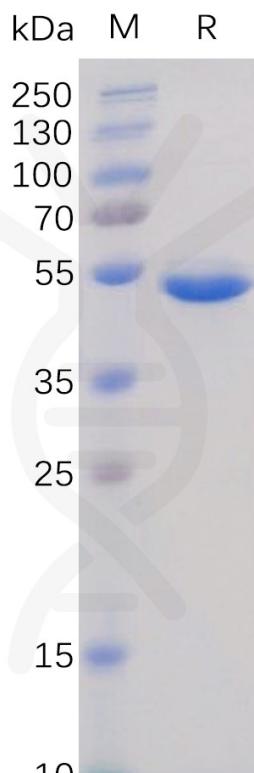
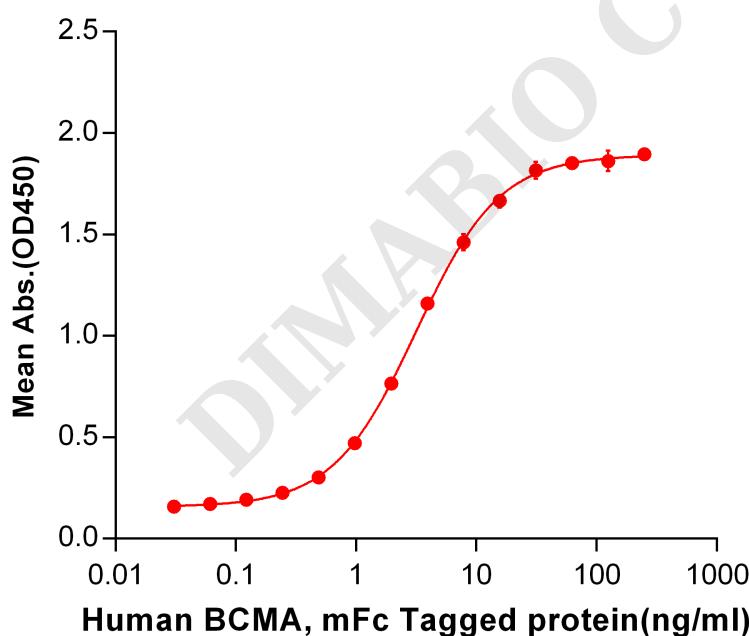


Figure 1. Human BAFF Protein, hFc Tag on SDS-PAGE under reducing condition.

### Human BAFF, hFc Tagged protein ELISA

0.2  $\mu$ g of BAFF, hFc Tagged protein per well

Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human BAFF, hFc tagged protein (PME100043) can bind Human BCMA, mFc tagged protein PME100035 in a linear range of 0.03-15.625 ng/ml.

## Human BAFF, hFc Tagged protein ELISA

0.2 µg of BAFF, hFc Tagged protein per well

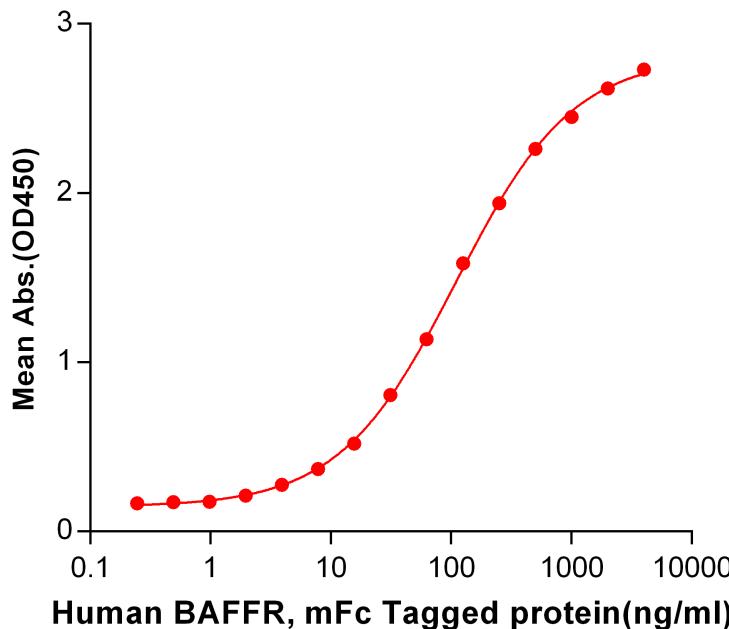


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human BAFF, hFc tagged protein (PME100043) can bind Human BAFF-R, mFc tagged protein PME100044 in a linear range of 0.488-250.0 ng/ml.

## Human BAFF, hFc Tagged protein ELISA

0.2 µg of Human BAFF, hFc Tagged protein per well

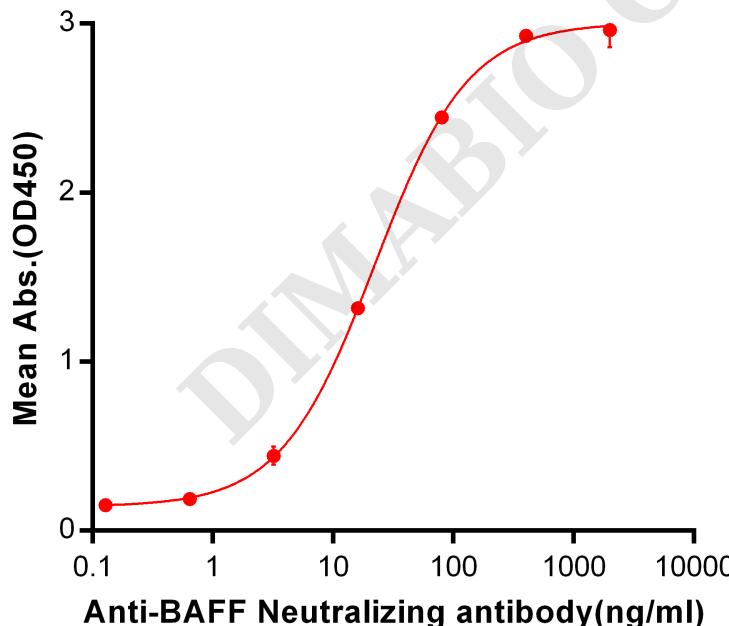


Figure 4. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human BAFF, hFc tagged protein (PME100043) can bind Anti-BAFF Neutralizing antibody BME100044 in a linear range of 3.2-400 ng/ml.



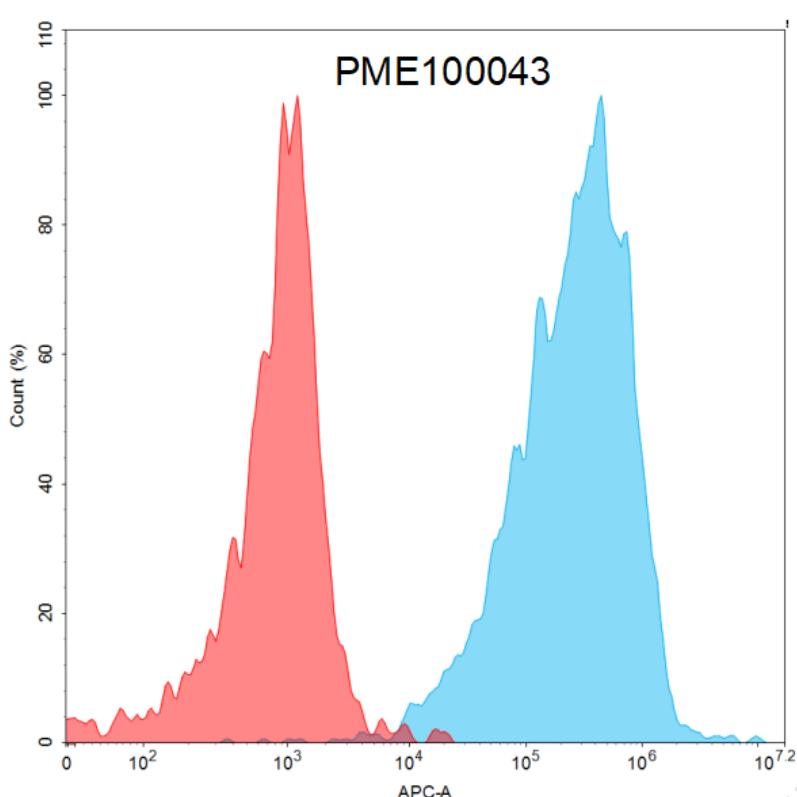


Figure 5. Flow cytometry analysis with 15  $\mu$ g/mL Human BAFF Protein, hFc tag (PME100043) on HEK293 cells transfected with human BAFF-R (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

