

Datasheet for ABIN7013542

BAFF Protein (AA 140-285) (His tag,DYKDDDDK Tag)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µg
Target:	BAFF (TNFSF13B)
Protein Characteristics:	AA 140-285
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BAFF protein is labelled with His tag,DYKDDDDK Tag.

Product Details

Characteristics:	Human BAFF / TNFSF13B / CD257 Protein, His,Flag Tag, active trimer (MALS verified)
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	BAFF (TNFSF13B)
Alternative Name:	BAFF (TNFSF13B Products)
Background:	B-cell activating factor (BAFF) is also known as tumor necrosis factor ligand superfamily member 13B , TNFSF13B, BAFF, B Lymphocyte Stimulator (BLyS) , cluster of differentiation 257 (CD257), DTL, TNF- and APOL-related leukocyte expressed ligand (TALL-1), THANK, TNFSF20, ZTNF4, and is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This

Target Details

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. It is expressed as transmembrane protein on various cell types including monocytes, dendritic cells and bone marrow stromal cells. BAFF is the natural ligand of three unusual tumor necrosis factor receptors named BAFF-R, TACI, and BCMA, all of which have differing binding affinities for it. These receptors are expressed mainly on mature B lymphocytes (TACI is also found on a subset of T-cells and BCMA on plasma cells). TACI binds worst since its affinity is higher for a protein similar to BAFF, called a proliferation-inducing ligand (APRIL). BCMA displays an intermediate binding phenotype and will work with either BAFF or APRIL to varying degrees. Signaling through BAFF-R and BCMA stimulates B lymphocytes to undergo proliferation and to counter apoptosis. All these ligands act as heterotrimers (i.e. three of the same molecule) interacting with heterotrimeric receptors, although BAFF has been known to be active as either a hetero- or homotrimer. BAFF acts as a potent B cell activator and has been shown to play an important role in the proliferation and differentiation of B cells.

Molecular Weight:	52.5 kDa
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Pathways:	NF-kappaB Signaling , Production of Molecular Mediator of Immune Response
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Application Details

Application Notes:	MALS verified
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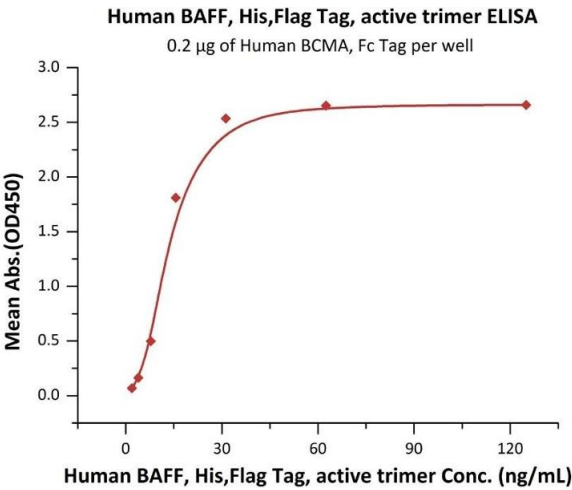
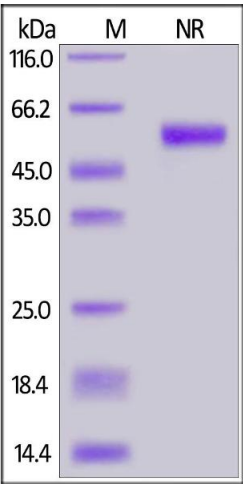
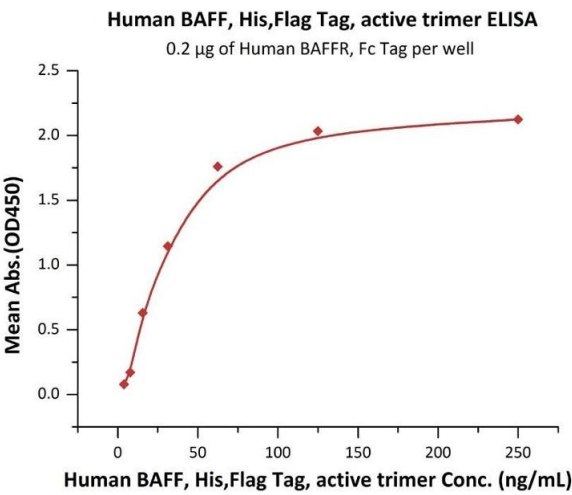
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Buffer:	25 mM MES, 150 mM NaCl, pH 6.0
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Storage:	-20 °C
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ELISA

Image 1. Immobilized Human BAFFR, Fc Tag (ABIN5526588,ABIN5526589) at 2 µg/mL (100 µL/well) can bind Human BAFF, His,Flag Tag, active trimer (ABIN6972949) with a linear range of 4-63 ng/mL when detected by Monoclonal anti FLAG (HRP) antibody (QC tested).

SDS-PAGE

Image 2. Human BAFF, His,Flag Tag, active trimer on under ing (NR) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

ELISA

Image 3. Immobilized Human BCMA, Fc Tag (ABIN2180645,ABIN2180644) at 2 µg/mL (100 µL/well) can bind Human BAFF, His,Flag Tag, active trimer (ABIN6972949) with a linear range of 2-16 ng/mL when detected by Monoclonal anti FLAG (HRP) antibody (Routinely tested).