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# Datasheet for ABIN4949008 BAFF Protein (AA 134-285) (His tag,AVI tag,Biotin)





Overview

Overview	
Quantity:	200 µg
Target:	BAFF (TNFSF13B)
Protein Characteristics:	AA 134-285
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BAFF protein is labelled with His tag,AVI tag,Biotin.
Application:	Functional Studies (Func)
Product Details	
Brand:	MABSol®,PrecisionAvi
Sequence:	AA 134-285
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	This protein carries a polyhistidine tag at the N-terminus, followed by an Avi tag (Avitag <sup>™</sup> ). The protein has a calculated MW of 29.2 kDa. As a result of glycosylation, the protein migrates as 29 kDa under reducing (R) condition, and 58 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.

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# Product Details

Endotoxin Level:

Less than 1.0 EU per  $\mu$ g 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
	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:	20.2 kDa
Pathways:	NF-kappaB Signaling, Production of Molecular Mediator of Immune Response
Application Details	
Comment:	Ready-to-use AvitagTM biotinylated protein:

The product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli

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### biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used	
binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore do	es
NOT interfere with the target protein's natural binding activities. In addition, when immobiliz	zed
on an avidin-coated surface, the protein orientation is uniform because the position of the A	4vi
tag in the protein is precisely controlled.	

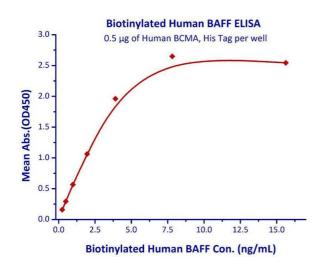
Restrictions:

For Research Use only

# Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

## Images

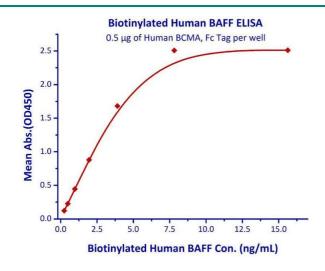


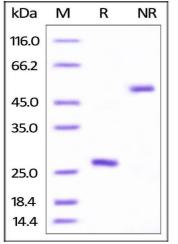
### **Binding Studies**

**Image 1.** Immobilized Human BCMA, His Tag with a linear range of 0.24-3.9 ng/mL.

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## Images





#### **Binding Studies**

**Image 2.** Immobilized Human BCMA, Fc Tag with a linear range of 0.24-3.9 ng/mL.

## SDS-PAGE

**Image 3.** Biotinylated Human BAFF, His Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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