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BAFF Protein (AA 134-285) (AVI tag,Fc Tag,Biotin)

3 Images



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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 AVI tag,Fc Tag,Biotin.

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 an Avi tag (Avitag™) at the N-terminus, followed by a human IgG1 Fc tag. The protein has a calculated MW of 44.9 kDa. As a result of Glycosylation, the protein migrates as 50 kDa under reducing (R) condition, and 200 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.

Target Details

AFF (TNFSF13B) AFF (TNFSF13B Products) -cell activating factor (BAFF) is also known as tumor necrosis factor ligand superfamily nember 13B, TNFSF13B, BAFF, B Lymphocyte Stimulator (BLyS), cluster of differentiation 257
-cell activating factor (BAFF) is also known as tumor necrosis factor ligand superfamily
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CD257), DTL, TNF- and APOL-related leukocyte expressed ligand (TALL-1), THANK, TNFSF20,
TNF4, and is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This
ytokine is a ligand for receptors TNFRSF13B/TACI, TNFRSF17/BCMA, and
NFRSF13C/BAFFR. This cytokine is expressed in B cell lineage cells, and acts as a potent B
ell activator. It has been also shown to play an important role in the proliferation and
ifferentiation of B cells. It is expressed as transmembrane protein on various cell types
ncluding monocytes, dendritic cells and bone marrow stromal cells. BAFF is the natural ligand
f three unusual tumor necrosis factor receptors named BAFF-R, TACI, and BCMA, all of which
ave differing binding affinities for it. These receptors are expressed mainly on mature B
mphocytes (TACI is also found on a subset of T-cells and BCMA on plasma cells). TACI binds
orst since its affinity is higher for a protein similar to BAFF, called a proliferation-inducing
gand (APRIL). BCMA displays an intermediate binding phenotype and will work with either
AFF or APRIL to varying degrees. Signaling through BAFF-R and BCMA stimulates B
mphocytes to undergo proliferation and to counter apoptosis. All these ligands act as
eterotrimers (i.e. three of the same molecule) interacting with heterotrimeric receptors,
Ithough BAFF has been known to be active as either a hetero- or homotrimer. BAFF acts as a
otent B cell activator and has been shown to play an important role in the proliferation and
ifferentiation of B cells.
4.9 kDa
IF-kappaB Signaling, Production of Molecular Mediator of Immune Response
eady-to-use AvitagTM biotinylated protein:
he product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino
cid peptide, the Avi tag, is introduced into the recombinant protein during expression vector
onstruction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli
iotin ligase BirA.
his single-point enzymatic labeling technique brings many advantages for commonly used
li co

binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does

NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avitag in the protein is precisely controlled.

Restrictions:

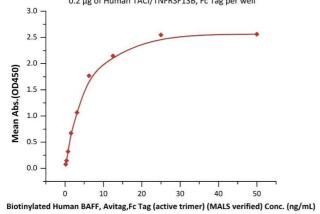
For Research Use only

Handling

Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Images

Biotinylated Human BAFF, Avitag,Fc Tag (active trimer) (MALS verified) ELISA 0.2 µg of Human TACI/TNFRSF13B, Fc Tag per well



ELISA

Image 1. Immobilized Human TACI/TNFRSF13B, Fc Tag (ABIN5674644,ABIN6253675) at 2 μ g/mL (100 μ L/well) can bind Biotinylated Human BAFF, Avitag,Fc Tag (active trimer) (MALS verified) (ABIN3137675,ABIN4369372) with a linear range of 0.2-6 ng/mL (Routinely tested).

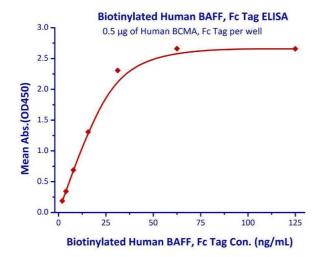
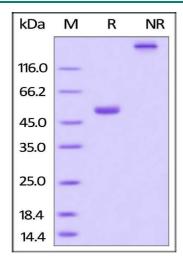


Image 2. Measured by its binding ability in a functional ELISA. Immobilized Human BCMA, Fc Tag with a linear range of 1.95-15.6 ng/mL.



SDS-PAGE

Image 3. Biotinylated Human BAFF, Fc 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%.