

Datasheet for ABIN3137676

BCMA Protein (AA 1-54) (Fc Tag,AVI tag,Biotin)**3** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	200 µg
Target:	BCMA (TNFRSF17)
Protein Characteristics:	AA 1-54
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BCMA protein is labelled with Fc Tag,AVI tag,Biotin.

Product Details

Brand:	MABSol®,PrecisionAvi
Sequence:	AA 1-54
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 human IgG1 Fc tag at the C-terminus, followed by a Avi tag (Avitag™). The protein has a calculated MW of 33.8 kDa. As a result of glycosylation, the protein migrates as 40-45 kDa under reducing (R) condition, and 70-85 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

Target:	BCMA (TNFRSF17)
Alternative Name:	BCMA (TNFRSF17 Products)
Background:	Tumor necrosis factor receptor superfamily member 17 (TNFRSF17) is also known as B-cell maturation protein (BCMA), CD antigen CD269, which is a member of the TNF-receptor superfamily. TNFRSF17 contains one TNFR-Cys repeat. TNFRSF17 is expressed in mature B-cells, but not in T-cells or monocytes. TNFRSF17 is receptor for TNFSF13B/BLyS/BAFF and TNFSF13/APRIL. TNFRSF17 promotes B-cell survival and plays a role in the regulation of humoral immunity. TNFRSF17 can activate NF-kappa-B and JNK.
Molecular Weight:	33.8 kDa
NCBI Accession:	NP_001183

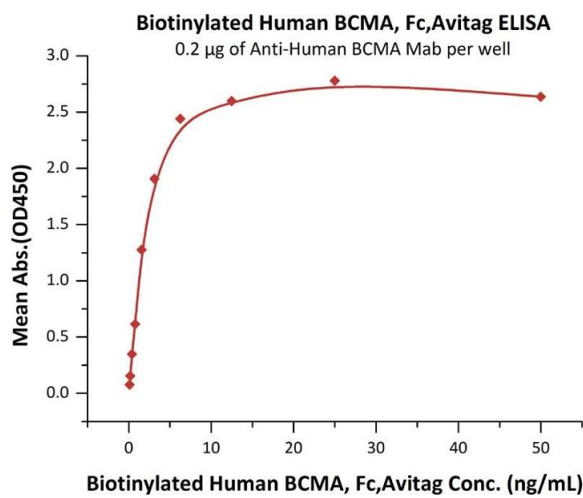
Application Details

Comment:	<p>Ready-to-use Avitag™ biotinylated protein:</p> <p>The product is exclusively produced using the Avitag™ 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 biotin ligase BirA.</p> <p>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 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 Avi tag in the protein is precisely controlled.</p>
Restrictions:	For Research Use only

Handling

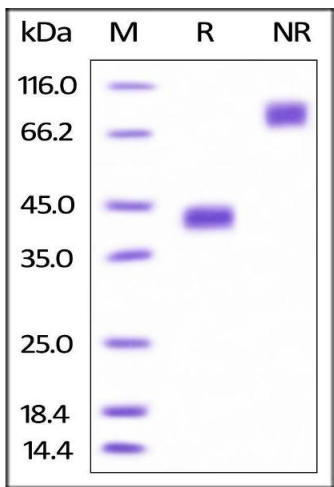
Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Product cited in: Berahovich, Zhou, Xu, Wei, Guan, Guan, Harto, Fu, Yang, Zhu, Li, Wu, Golubovskaya: "CAR-T Cells Based on Novel BCMA Monoclonal Antibody Block Multiple Myeloma Cell Growth." in: **Cancers**, Vol. 10, Issue 9, (2018) ([PubMed](#)).



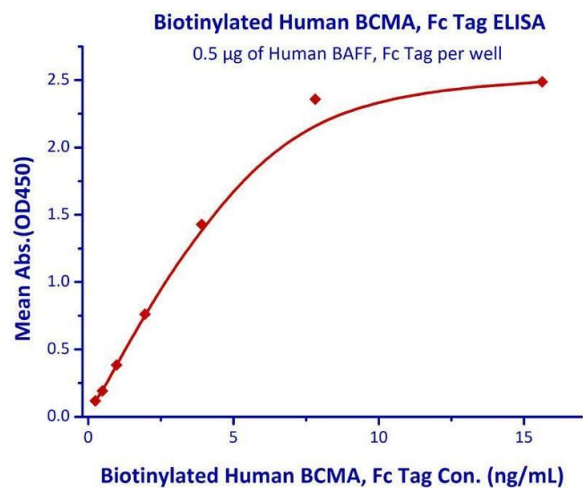
ELISA

Image 1. Immobilized A BCMA Mab at 2 µg/mL (100 µL/well) can bind Biotinylated Human BCMA, Fc,Avitag (ABIN3137676,ABIN4369373) with a linear range of 0.1-3 ng/mL (Routinely tested).



SDS-PAGE

Image 2. Biotinylated Human BCMA , 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%.



Binding Studies

Image 3. Immobilized Human BAFF, Fc Tag with a linear range of 0.12-1.95 ng/mL.