Datasheet for ABIN6731326

TNFSF13 Protein (AA 105-250) (Fc Tag,AVI tag,Biotin)

3 Images

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Overview

Quantity:	200 µg
Target:	TNFSF13
Protein Characteristics:	AA 105-250
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TNFSF13 protein is labelled with Fc Tag,AVI tag,Biotin.

Product Details

Sequence:	AA 105-250
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	TNFSF13
Alternative Name:	APRIL (TNFSF13 Products)
Background:	APRIL(a proliferation-inducing ligand) is also known as Tumor necrosis factor ligand

Target Details

	superfamily member 13, TALL-2, TRDL-1, CD256, TNFFSF 13, cytokine that binds to TNFRSF13B/TACI and to TNFRSF17/BCMA. APRIL is a cytokine of the tumor necrosis factor family associated mainly with hematologic malignancies. The closely related TNF family ligands B cell activation factor (BAFF) and a proliferation-inducing ligand (APRIL) serve in the generation and maintenance of mature B-lymphocytes. Both BAFF and APRIL assemble as homotrimers that bind and activate several receptors that they partially share. BAFF-APRIL heteromers of different stoichiometries have distinct receptor-binding properties and activities. In addition, expression of APRIL was regulated by miR-145 in GC cells.
Molecular Weight:	44.6 kDa
NCBI Accession:	NP_003799
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, 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 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 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.
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

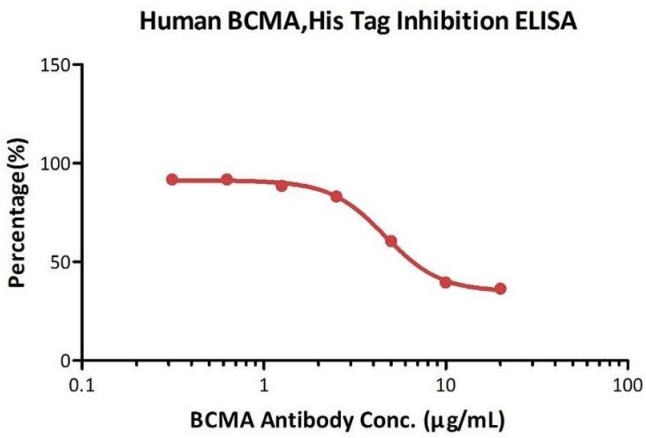

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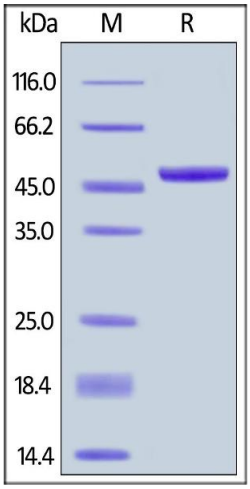
Image 1. Immobilized Human BCMA, His Tag (ABIN4949075,ABIN4949076) at 2 µg/mL (100 µL/well) can bind increasing concentrations of A MAb (Mouse IgG1) and 0.05 µg/mL (100 µL/well) Biotinylated Human APRIL, Fc,Avitag (ABIN6731326,ABIN6809916) with a half maximal inhibitory concentration (IC50) of 4.624 µg/mL (Routinely tested).



SDS-PAGE

Image 2. Biotinylated Human APRIL, Fc,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

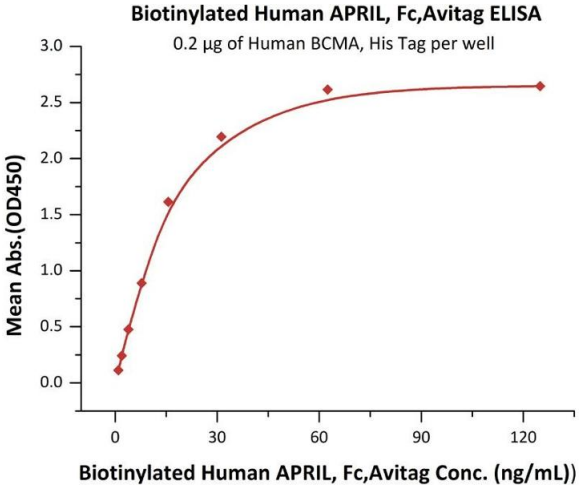


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Image 3. Immobilized Human BCMA, His Tag (ABIN4949075,ABIN4949076) at 2 µg/mL (100 µL/well) can bind Biotinylated Human APRIL, Fc,Avitag (ABIN6731326,ABIN6809916) with a linear range of 1-20 ng/mL (QC tested).