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Datasheet for ABIN6973283

## TNFRSF1B Protein (AA 23-257) (His tag,AVI tag,Biotin)

### 2 Images

#### Overview

Quantity:	200 µg
Target:	TNFRSF1B
Protein Characteristics:	AA 23-257
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TNFRSF1B protein is labelled with His tag,AVI tag,Biotin.

#### Product Details

Sequence:	AA 23-257
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	Human TNFSF11 / RANKL / CD254 Protein, Mouse IgG2a Fc Tag
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

#### Target Details

Target:	TNFRSF1B
Alternative Name:	TNFR2 ( <a href="#">TNFRSF1B Products</a> )

## Target Details

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**Background:** TNF RI is also known as the p60 or p55 TNFR) and TNF RII (the p75 or p80 TNFR) are two distinct type I transmembrane glycoproteins that bind TNF with high affinity. Both RI and RII are prototypic members of the TNF receptor superfamily and have been designated TNFRSF1A and TNFRSF1B, respectively. Human TNF RII cDNA encodes a 461 amino acid (aa) residue precursor protein with a 22 aa putative signal peptide, a 235 aa extracellular domain, a 20 aa transmembrane domain and a 174 aa cytoplasmic domain. TNFRII is expressed in fetal brain. The protein is produced naturally as a soluble form (sTNFRII). The soluble receptor inhibits TNF  $\alpha$  action by competing with cell surface receptors in binding TNF $\alpha$ , thereby blocking its biologic effects. TNFRII is strongly expressed at the cartilage-pannus junction, and plays a major role in a subset of families with multiple cases of rheumatoid arthritis (RA). Further, high plasma levels of sTNFRII were significantly associated with increased incidence of coronary heart disease, independent of established cardiovascular risk factors, and seems to be useful for monitoring the inflammatory activity of sarcoidosis.

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**Molecular Weight:** 28.7 kDa

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**Pathways:** [NF-kappaB Signaling](#), [Apoptosis](#), [Cellular Response to Molecule of Bacterial Origin](#), [Hepatitis C](#), [Ubiquitin Proteasome Pathway](#)

## Application Details

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**Comment:** Ready-to-use Avitag™ biotinylated protein:  
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.

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.

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

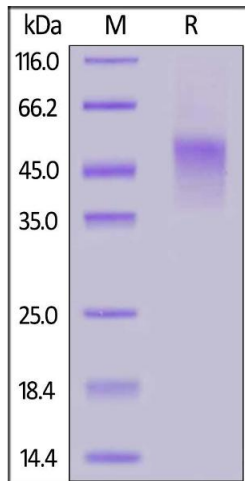
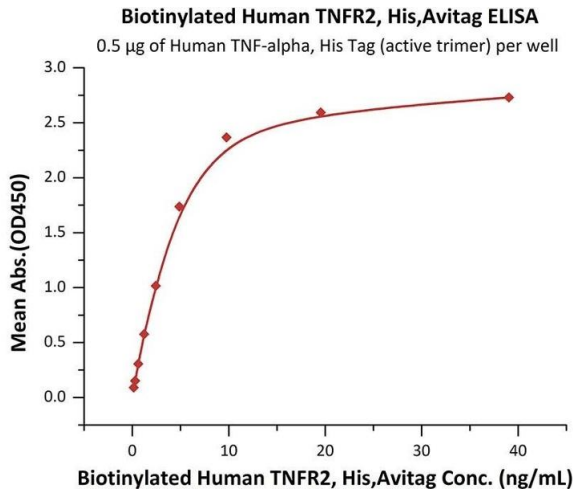
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## Handling

Buffer: PBS, pH 7.4

Storage: -20 °C

## Images



### ELISA

**Image 1.** Immobilized Human , His Tag (active trimer) (MALS verified) (ABIN4949148,ABIN4949149) at 5 µg/mL (100 µL/well) can bind Biotinylated Human TNFR2, His,Avitag™ (ABIN6973283) with a linear range of 0.2-5 ng/mL (QC tested).

### SDS-PAGE

**Image 2.** Biotinylated Human TNFR2, His,Avitag™ on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .