Datasheet for ABIN5526649

CD147 Protein (AA 22-205) (His tag,AVI tag,Biotin)

3 Images

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Overview

Quantity:	200 µg
Target:	CD147 (BSG)
Protein Characteristics:	AA 22-205
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD147 protein is labelled with His tag,AVI tag,Biotin.

Product Details

Brand:	PrecisionAvi
Sequence:	AA 22-205
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 C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 22.8 kDa. The protein migrates as 30-45 KDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>92 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD147 (BSG)

Target Details

Alternative Name:	EMMPRIN (BSG Products)
Background:	CD147 is also known as Basigin (BSG), or extracellular matrix metalloproteinase inducer (EMMPRIN). The human basigin protein contains 269 amino acids that form two heavily glycosylated C2 type immunoglobulin-like domains at the N-terminal extracellular portion. A second form of basigin has also been characterized that contains one additional immunoglobulin-like domain in its extracellular portion. As members of the immunoglobulin superfamily play fundamental roles in intercellular recognition involved in various immunologic phenomena, differentiation, and development, basigin is thought also to play a role in intercellular recognition and regulate several distinct functions, such as spermatogenesis, expression of the monocarboxylate transporter and the responsiveness of lymphocytes. Basigin is a type I integral membrane receptor that has many ligands, including the cyclophilin (CyP) proteins Cyp-A and CyP-B and certain integrins.
Molecular Weight:	22.8 kDa
NCBI Accession:	NP_940991
Pathways:	S100 Proteins

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

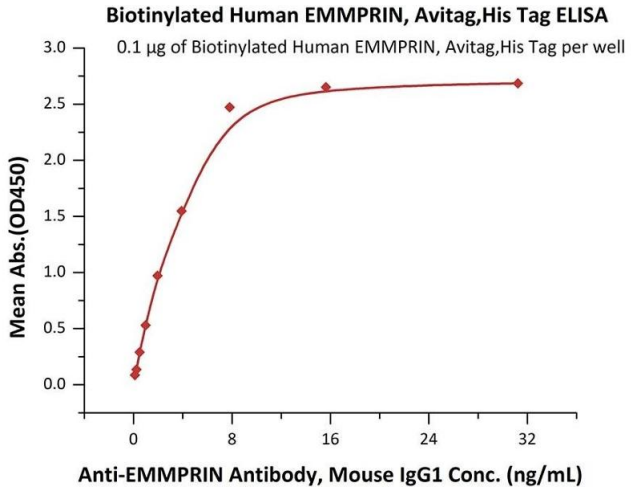
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4

Handling

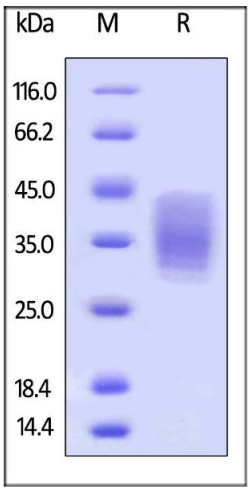
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Images



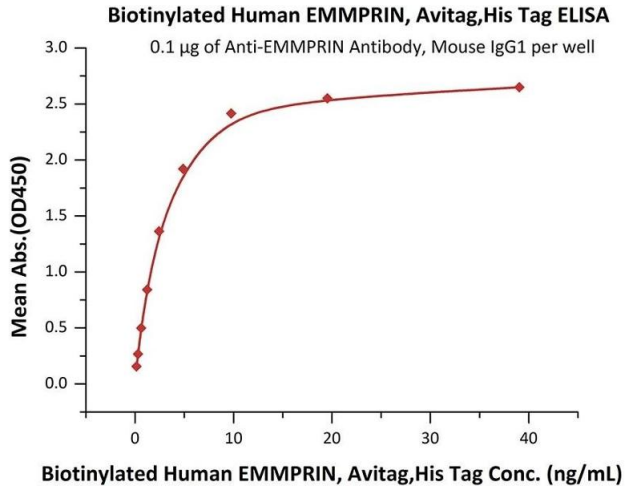
ELISA

Image 1. Immobilized AIN Antibody, Mouse IgG1 at 1 μg/mL (100 μL/well) can bind Biotinylated Human EMMPRIN, Avitag,His Tag (ABIN5526648,ABIN5526649) with a linear range of 0.2-5 ng/mL (Routinely tested).



SDS-PAGE

Image 2. Biotinylated Human EMMPRIN, Avitag,His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 92 % .



ELISA

Image 3. Immobilized Biotinylated Human EMMPRIN, Avitag,His Tag (ABIN5526648,ABIN5526649) at 1 μg/mL (100 μL/well) on streptavidin precoated (0.5 μg/well) plate can bind AIN Antibody, Mouse IgG1 with a linear range of 0.1-4 ng/mL (QC tested).