

Datasheet for ABIN6950962

CD47 Protein (CD47) (AA 19-140) (His tag,AVI tag,Biotin)



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2 Images

Overview

Quantity:	200 µg
Target:	CD47
Protein Characteristics:	AA 19-140
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD47 protein is labelled with His tag,AVI tag,Biotin.

Product Details

Sequence:	AA 19-140
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 0.1 EU per µg by the LAL method.

Target Details

Target:	CD47
Alternative Name:	CD47 (CD47 Products)
Background:	Leukocyte surface antigen CD47 is also known as Antigenic surface determinant protein OA3,

Target Details

Integrin-associated protein (IAP) and Protein MER6. CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain. CD47 is very broadly distributed on normal adult tissues. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins and plays an important role in memory formation and synaptic plasticity in the hippocampus by similarity. CD47 is the receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. CD47 Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation.

Molecular Weight: 17.4 kDa

NCBI Accession: [NP_001355344](#)

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

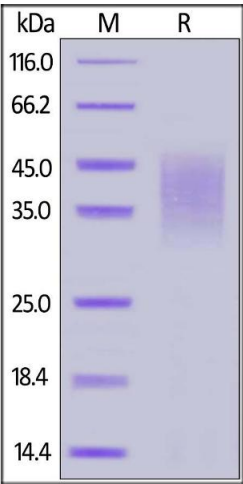
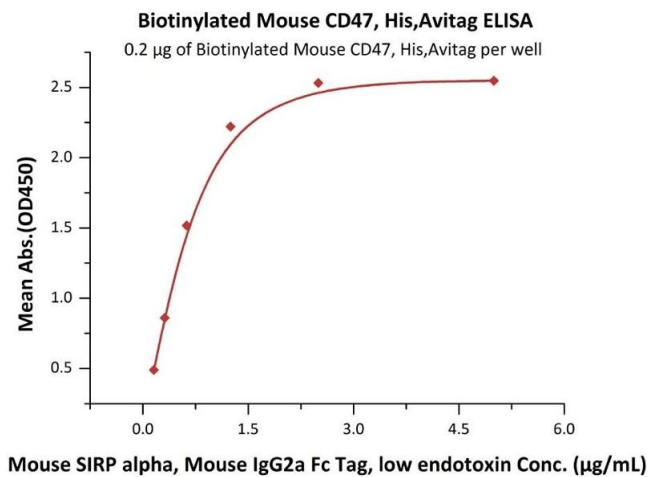
Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



ELISA

Image 1. Immobilized Biotinylated Mouse CD47, His,Avitag (ABIN6950962,ABIN6952296) at 2 µg/mL (100 µL/well) on Streptavidin precoated (0.5 µg/well) plate, can bind Mouse SIRP alpha, Mouse IgG2a Fc Tag, low endotoxin (ABIN5955018,ABIN6253632) with a linear range of 0.019-0.625 µg/mL (QC tested).

SDS-PAGE

Image 2. Biotinylated Mouse CD47, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .