

Datasheet for ABIN7274225  
**CD47 Protein (CD47) (AA 19-139) (Fc Tag)**



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7 Images

## Overview

Quantity:	100 µg
Target:	CD47
Protein Characteristics:	AA 19-139
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD47 protein is labelled with Fc Tag.

## Product Details

Purpose:	Human CD47 Protein
Sequence:	Gln19-Pro139
Characteristics:	Recombinant Human CD47 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln19-Pro139.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human SIRP alpha, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC50 of 38.1ng/ml determined by ELISA. The affinity constant of 13.8nM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

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Target:	CD47
Alternative Name:	CD47 ( <a href="#">CD47 Products</a> )
Background:	CD47 (Cluster of Differentiation 47) also known as integrin associated protein (IAP) is a transmembrane protein that in humans is encoded by the CD47 gene. CD47 belongs to the immunoglobulin superfamily and partners with membrane integrins and also binds the ligands thrombospondin-1 (TSP-1) and signal-regulatory protein alpha (SIRP $\alpha$ ). CD-47 acts as a don't eat me signal to macrophages of the immune system which has made it a potential therapeutic target in some cancers.
Molecular Weight:	40.5 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.

## Application Details

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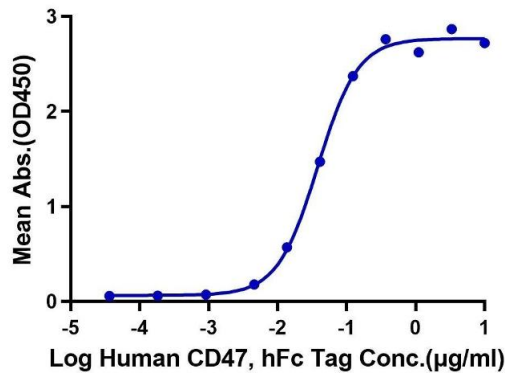
Restrictions:	For Research Use only
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## Handling

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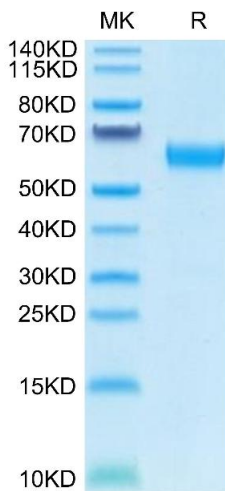
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 $\mu$ m filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

**Human CD47, hFc Tag ELISA**  
0.05µg Human SIRP alpha, His Tag Per Well



**ELISA**

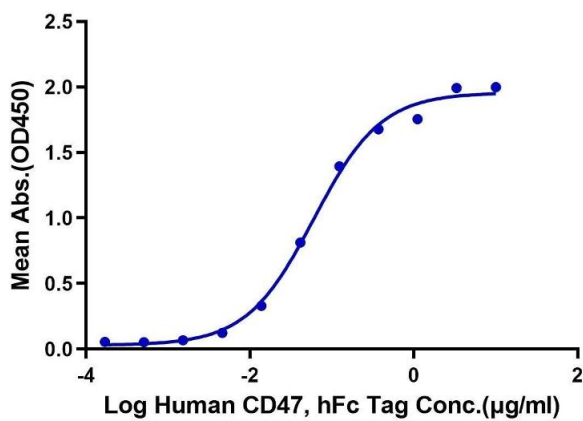
**Image 1.** Immobilized Human SIRP alpha, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC50 of 38.1 ng/mL determined by ELISA.



**SDS-PAGE**

**Image 2.** Human CD47 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

**Human CD47, hFc Tag ELISA**  
0.1µg Human SIRP alpha V5, His Tag Per Well



**ELISA**

**Image 3.** Immobilized Human SIRP alpha V5, His Tag at 1 µg/mL (100 µL/Well). Dose response curve for Human CD47, hFc Tag with the EC50 of 60 ng/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN7274225.