

Datasheet for ABIN7274220

CD47 Protein (CD47) (AA 19-139) (His tag)

6 Images

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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 His tag.

Product Details

Purpose:	Human CD47 Protein
Sequence:	Gln19-Pro139
Characteristics:	Recombinant Human CD47 is expressed from HEK293 with His 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 CD47, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human SIRP alpha, hFc Tag with the EC50 of 28.9ng/ml determined by ELISA. The affinity constant of 18.9nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	CD47
Alternative Name:	CD47 (CD47 Products)
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 (SIRPα). 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:	14.5 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Tris-Bis PAGE result.

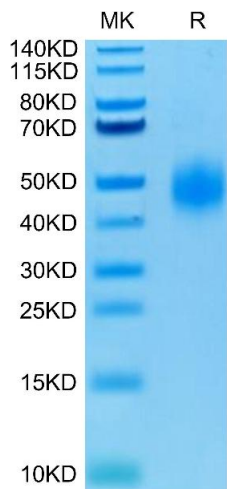
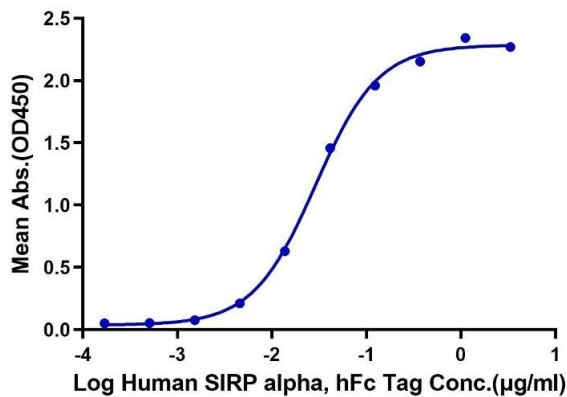
Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm 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, His Tag ELISA
0.2µg Human CD47, His Tag Per Well



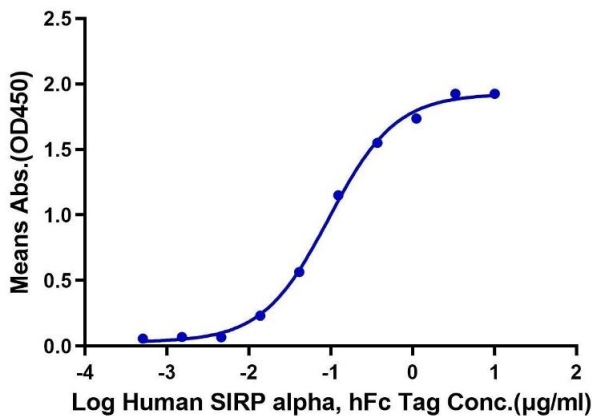
ELISA

Image 1. Immobilized Human CD47, His Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Human SIRP alpha, hFc Tag with the EC50 of 28.9 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, His Tag ELISA
0.5µg Human CD47, His Tag Per Well



ELISA

Image 3. Immobilized Human CD47, His Tag at 5 µg/mL (100 µL/Well). Dose response curve for Human SIRP alpha, hFc Tag with the EC50 of 95.0 ng/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7274220.