antibodies

## Datasheet for ABIN7274217 CD47 Protein (CD47) (AA 19-141) (His tag)



4 Images



Quantity:	100 µg
Target:	CD47
Protein Characteristics:	AA 19-141
Origin:	Rhesus Monkey, Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD47 protein is labelled with His tag.

## Product Details

Purpose:	Cynomolgus/Rhesus macaque CD47 Protein
Sequence:	Gln19-Glu141
Characteristics:	Recombinant Cynomolgus/Rhesus macaque CD47 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Gln19-Glu141.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per $\mu$ g by the LAL method.
Biological Activity Comment:	Immobilized Cynomolgus/Rhesus macaque CD47, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human SIRP alpha, hFc Tag with the EC50 of 0.52ug/ml determined by ELISA. The affinity constant of 63.27 nM as determined in SPR assay (Biacore T200). See testing image for detail.

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### Target Details

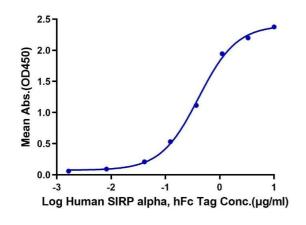
Target:	CD47
Alternative Name:	CD47 (CD47 Products)
Background:	CD47 (Cluster of Differentiation 47) also known as integrin associated protein (IAP) is a transmembrane protein that in humans is encoded by the CD47 gene. CD47 belongs to the immunoglobulin superfamily and partners with membrane integrins and also binds the ligands thrombospondin-1 (TSP-1) and signal-regulatory protein alpha (SIRPq).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:	15 kDa. Due to glycosylation, the protein migrates to 45-65 kDa based on Tris-Bis PAGE result.
UniProt:	F7A802
Application Details	
Restrictions:	For Research Use only
Handling	
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 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage: Storage Comment:	-20 °C,-80 °C -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.

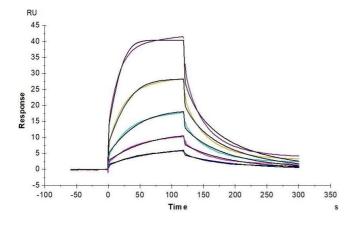
20

5

Cynomolgus/Rhesus macaque CD47, His Tag ELISA

 $0.5 \mu g$  Cynomolgus/Rhesus macaque CD47, His Tag Per Well





705

10

12

### ELISA

**Image 1.** Immobilized Cynomolgus/Rhesus macaque CD47, His Tag at  $5 \mu g/mL$  (100  $\mu L/well$ ) on the plate. Dose response curve for Human SIRP alpha, hFc Tag with the EC50 of 0.52  $\mu g/mL$  determined by ELISA.

#### **Surface Plasmon Resonance**

**Image 2.** Cynomolgus SIRP alpha, His Tag immobilized on CM5 Chip can bind Cynomolgus /Rhesus macaque CD47, His Tag with an affinity constant of 63.27 nM as determined in SPR assay (Biacore T200).

# Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Cynomolgus/Rhesus macaque CD47 is greater than 95 % as determined by SEC-HPLC.



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