

Cynomolgus/Rhesus macaque CD47 Protein

Cat. No. CD7-CM147

Description

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|-------------------------|--|
| Source | Recombinant Cynomolgus/Rhesus macaque CD47 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln19-Glu141. |
| Accession | F7A802 |
| Molecular Weight | The protein has a predicted MW of 15 kDa. Due to glycosylation, the protein migrates to 45-65 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

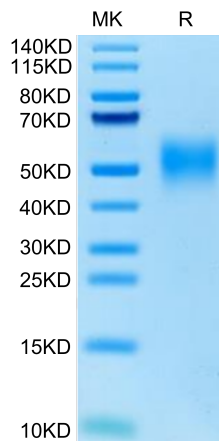
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

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.

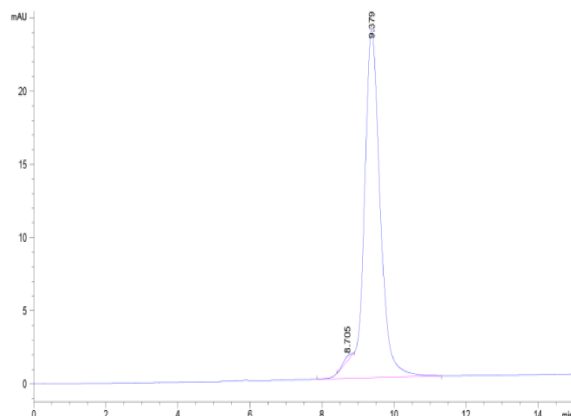
Assay Data

Bis-Tris PAGE



Cynomolgus/Rhesus macaque CD47 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



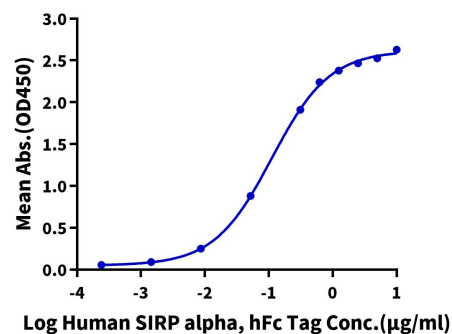
The purity of Cynomolgus/Rhesus macaque CD47 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

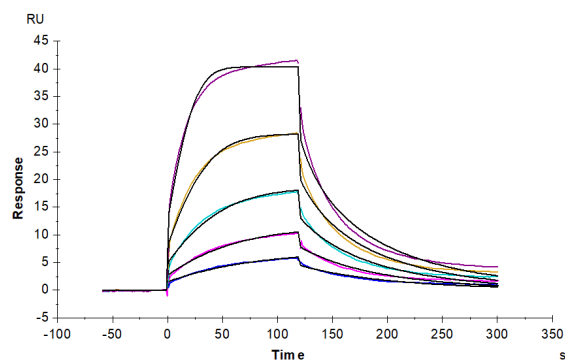
Cynomolgus/Rhesus macaque CD47, His Tag ELISA

0.5µg Cynomolgus/Rhesus macaque CD47, His Tag Per Well



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 0.11ug/ml determined by ELISA (QC Test).

SPR Data



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).