

Catalog No.: RP01306 **Recombinant**

Species	Gene ID	Swiss Prot
Human	961	O08722

C-His

CD47; IAP; MER6; OA3; CD47
molecule:IAP;MER6;OA3

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE

Calculated MW	Observed MW
14.56 kDa	35-45 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

This protein is a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded protein is also a receptor for the C-terminal cell binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This protein has broad tissue distribution, and is reduced in expression on Rh erythrocytes.

Recombinant Human CD47 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln19-Pro139) of human CD47 (Accession #NP_001768.1) fused with an 6×His tag at the C-terminus.

1. Measured by its binding ability in a functional ELISA. Immobilized Human CD47 at 5 µg/mL (100 µL/well) can bind Human SIRPA with a linear range of 0.488-189.26 ng/mL. | Measured by its binding ability in a functional ELISA. Immobilized Human CD47 (Catalog: RP01306) at 2 µg/mL (100 µL/well) can bind Human SIRP-alpha/CD172a (Catalog: RP00171) with a linear range of 0.06-22.3 ng/mL. | 3. Loaded Human SIRP-alpha/CD172a Protein, C-hFc&His (Catalog: RP00171) on ProA Biosensor, can bind Human CD47 Protein, C-His Tag (Catalog: RP01306) with an affinity constant of 11.1 nM as determined in BLI assay (Gator).

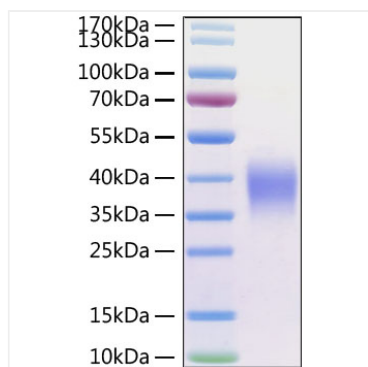
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

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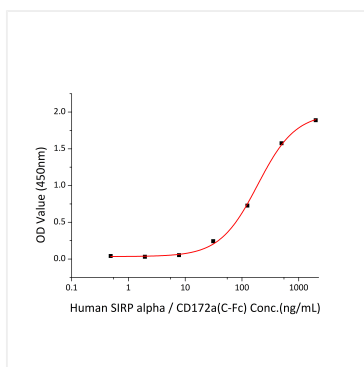
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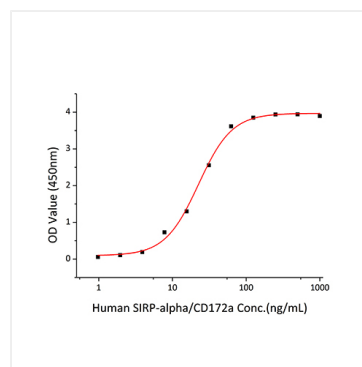
Validation Data



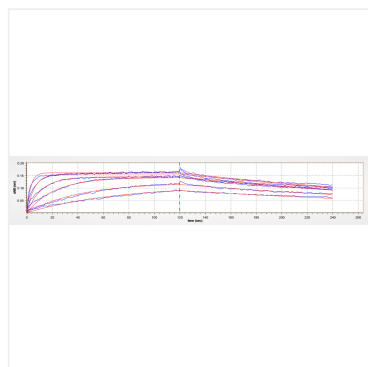
Recombinant Human CD47 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human CD47 at 5 µg/mL (100 µL/well) can bind Human SIRPA with a linear range of 0.488-189.26 ng/mL.



Immobilized Human CD47 (Catalog: RP01306) at 2 µg/mL (100 µL/well) can bind Human SIRP-alpha/CD172a (Catalog: RP00171) with a linear range of 0.06-22.3 ng/mL.



Loaded Human SIRP-alpha/CD172a Protein, C-hFc&His(Catalog: RP00171) on ProA Biosensor, can bind Human CD47 Protein, C-His Tag (Catalog: RP01306) with an affinity constant of 11.1 nM as determined in BLI assay (Gator).