

RP02027

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# Recombinant Human CD47 Protein

Catalog No.: RP02027

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
Human	961	Q08722

### Tags

C-His

### Synonyms

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

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

## 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.

## Basic Information

### Description

Recombinant Mouse B7-H5 Protein is produced by mammalian expression system. The target protein is expressed with sequence (Gln19-Pro139) of human CD47 (Accession #Q08722) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

Immobilized Human CD47 at 0.5 μg/mL (100 μL/well), dose response curve for Human SIRP alpha with the EC<sub>50</sub> of 96.15 ng/mL determined by ELISA.

### Storage

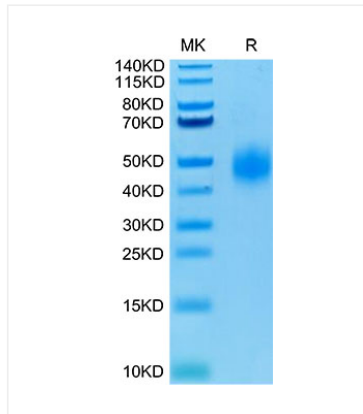
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Contact

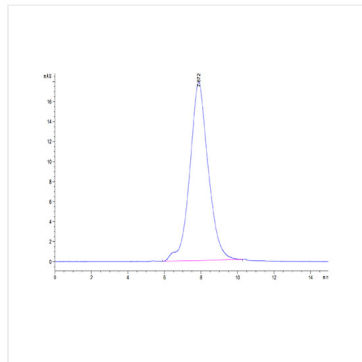


[www.abclonal.com](http://www.abclonal.com)

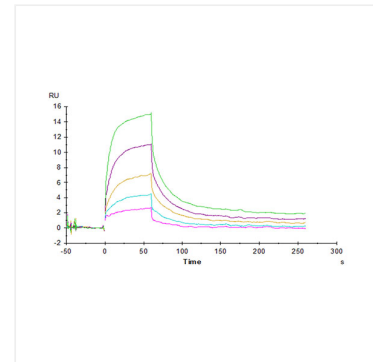
## Validation Data



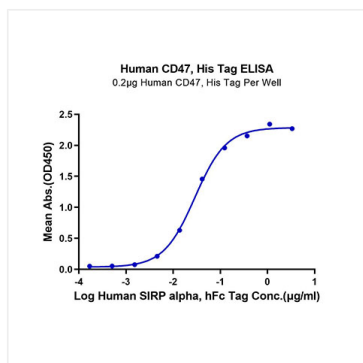
Human CD47 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human CD47 is greater than 95% as determined by SEC-HPLC.



Human CD47, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human Sirpa, hFc Tag with an affinity constant of 18.9nM as determined in SPR assay (Biacore T200).



Immobilized Human CD47, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Human SIRP alpha, hFc Tag with the EC<sub>50</sub> of 28.9ng/ml determined by ELISA.