

Datasheet for ABIN7457998

**CD47 Protein (CD47) (AA 19-139) (His tag)****3** Images**2** Publications[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	CD47
Protein Characteristics:	AA 19-139
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD47 protein is labelled with His tag.

## Product Details

Sequence:	AA 19-139
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 15.6 kDa. The protein migrates as 35-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	CD47
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## Target Details

Alternative Name: CD47 ([CD47 Products](#))

Background: Leukocyte surface antigen CD47 is also known as Antigenic surface determinant protein OA3, Integrin-associated protein (IAP) and Protein MER6. CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain. CD47 is very broadly distributed on normal adult tissues. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins and plays an important role in memory formation and synaptic plasticity in the hippocampus by similarity. CD47 is the receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. CD47 Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation.

Molecular Weight: 15.6 kDa

NCBI Accession: [NP\\_942088](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

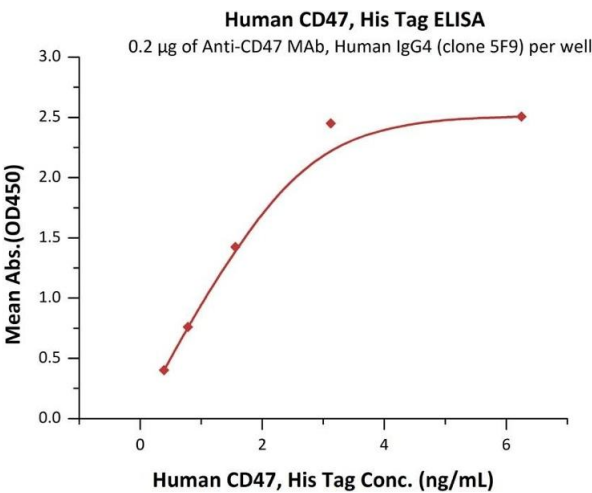
Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

## Publications

Product cited in: Wang, Ni, Zhou, He, Gao, Wu, Wu, Wu, Qiu, Zhou, Chen, Pan, Huang, Li, Bian, Yang, Miao, Liu: "Tumor-selective blockade of CD47 signaling with a CD47/PD-L1 bispecific antibody for enhanced anti-tumor activity and limited toxicity." in: **Cancer immunology, immunotherapy : CII**, (2020) ([PubMed](#)).

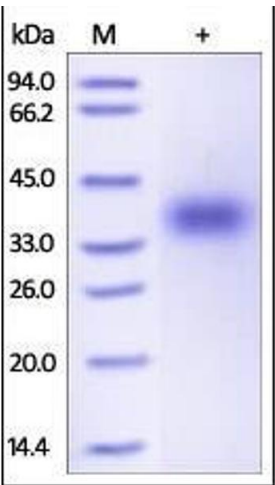
Yu, Qiu, Long, Yang, Zhang, Xu, Chang, Du, Hou, Yu, Zeng, Wang, Sun: "A novel fully human anti-CD47 antibody as a potential therapy for human neoplasms with good safety." in: **Biochimie**,

Images



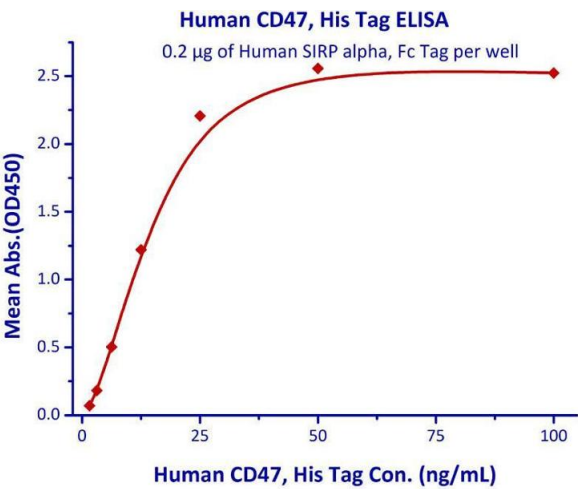
ELISA

**Image 1.** Immobilized A MAb, Human IgG4 (clone 5F9) at 2 µg/mL (100 µL/well) can bind Human CD47, His Tag (ABIN2180804,ABIN2180803) with a linear range of 0.4-3 ng/mL (Routinely tested).



SDS-PAGE

**Image 2.** Human CD47, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

**Image 3.** Immobilized Human SIRP alpha, Fc Tag with a linear range of 1.56-12.5 ng/mL.