

Datasheet for ABIN2180805

CD47 Protein (CD47) (AA 19-139) (Fc Tag)**3** Images**1** Publication[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 Fc Tag.

Product Details

Sequence:	AA 19-139
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 40.4 kDa. The protein migrates as 50-65 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: 40.4 kDa

NCBI Accession: [NP_942088](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: 50 mM Tris, 100 mM Glycine, pH 7.5

Handling Advice: Please avoid repeated freeze-thaw cycles.

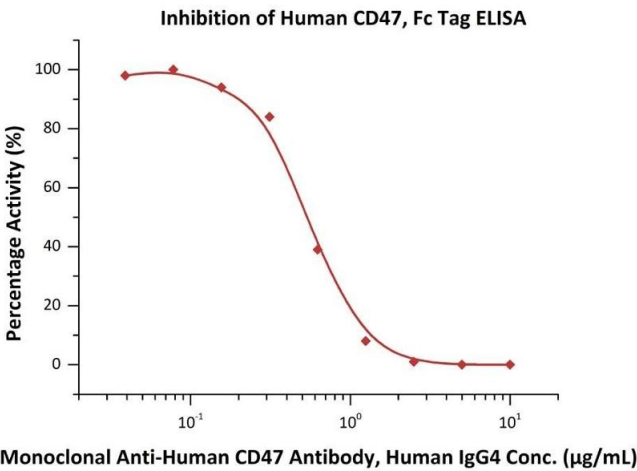
Storage: -20 °C

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

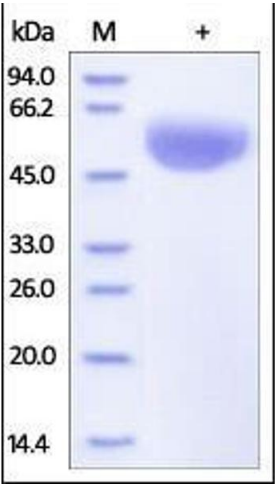
Product cited in: Brekke, Sagen, Bjerve: "Specificity of endogenous fatty acid release during tumor necrosis factor-induced apoptosis in WEHI 164 fibrosarcoma cells." in: **Journal of lipid research**, Vol. 40, Issue 12, pp. 2223-33, (2000) ([PubMed](#)).

Tacchini-Cottier, Vesin, Redard, Buurman, Piguet: "Role of TNFR1 and TNFR2 in TNF-induced platelet consumption in mice." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 160, Issue 12, pp. 6182-6, (1998) ([PubMed](#)).



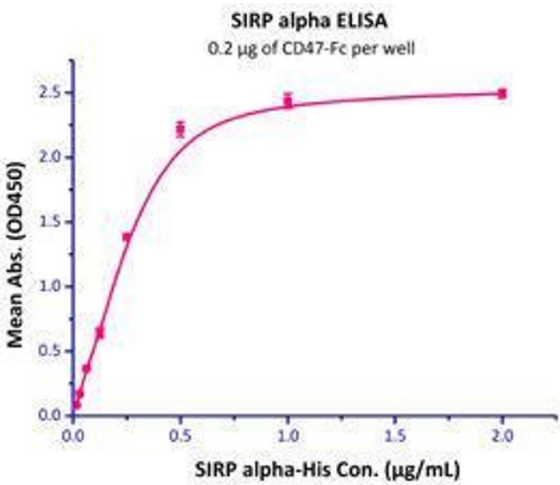
ELISA

Image 1. Serial dilutions of A CD47 Neutralizing Antibody were added into Human CD47, Fc Tag (ABIN2180806,ABIN2180805): Biotinylated Human SIRP alpha, Fc,Avitag (ABIN5526676,ABIN5526677) binding reactions. The half maximal inhibitory concentration (IC50) is 0.5431 µg/mL (Routinely tested).



SDS-PAGE

Image 2. Human CD47, Fc Tag (HPLC-verified) 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 CD47, Fc Tag (HPLC-verified) with a linear range of 16-250 ng/mL.