

Datasheet for ABIN7596176

CD47 Protein (CD47) (AA 19-141) (hIgG-His-tag)[Go to Product page](#)

Overview

Quantity:	500 µg
Target:	CD47
Protein Characteristics:	AA 19-141
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD47 protein is labelled with hIgG-His-tag.
Application:	SDS-PAGE (SDS), Activity Assay (AcA)

Product Details

Sequence:	QLLFNKTKSV EFTFCNDTVV IPCFVTNMEA QNTTEVYVKW KFKGRDIYTF DGALNKSTVP TDFSSAKIEV SQLLKGDASL KMDKSDAVSH TGNYTCEVTE LTREGETIIE LKYRVVSWFS PNE
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Measured by its binding ability in a functional ELISA with Human SIRP alpha/CD172a (CAT# ATGP4069). The ED50 range ≤ 100 ng/ml.

Target Details

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Target Details

Alternative Name:	CD47 (CD47 Products)
Background:	CD47, also known as leukocyte surface antigen CD47 isoform 1, is a member of immunoglobulin superfamily. It has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. Also, it plays an important role in memory formation and synaptic plasticity in the hippocampus. This protein is a receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. CD47 mediates cell-cell adhesion, enhances super antigen-dependent T-cell-mediated proliferation and co-stimulates T-cell activation. It may play a role in membrane transport and/or integrin dependent signal transduction and prevent premature elimination of red blood cells. Recombinant human CD47, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	40.9 kDa (362aa)
NCBI Accession:	NP_001768

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.