

Datasheet for ABIN7320544
CD47 Protein (CD47) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	CD47
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD47 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse CD47 Protein (His Tag) (Active)
Sequence:	Gln19-Pro158
Characteristics:	Recombinant Mouse Leukocyte surface antigen CD47 is produced by our Mammalian expression system and the target gene encoding Gln19-Pro158 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Mouse SIRPA -Fc(Cat: PKSM041145) at 2µg/ml(100 µl/well) can bind Mouse CD47-His. The ED50 of Mouse CD47-His is 5.736 ug/mL.

Target Details

Target:	CD47
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Target Details

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

Background: Background: CD47, also known as Integrin-Associated Protein (IAP) and OA3, is a glycosylated atypical member of the immunoglobulin superfamily. Mouse CD47 is an integral membrane protein that consists of a extracellular domain (ECD) with a single Ig-like domain, five membrane-spanning regions with short intervening loops, and C-terminal cytoplasmic tail. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. It plays an important role in memory formation and synaptic plasticity in the hippocampus. As a receptor for SIRPA, it binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cellcell adhesion, it enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. It may play a role in membrane transport and/or integrin dependent signal transduction. It also prevents premature elimination of red blood cells.

Synonym: LAP,OA3,Leukocyte Surface Antigen CD47, Antigenic Surface Determinant Protein OA3, Integrin-Associated Protein,Protein MER6, CD47, MER6

Molecular Weight: 16.7 kDa

Application Details

Restrictions: For Research Use only

Handling

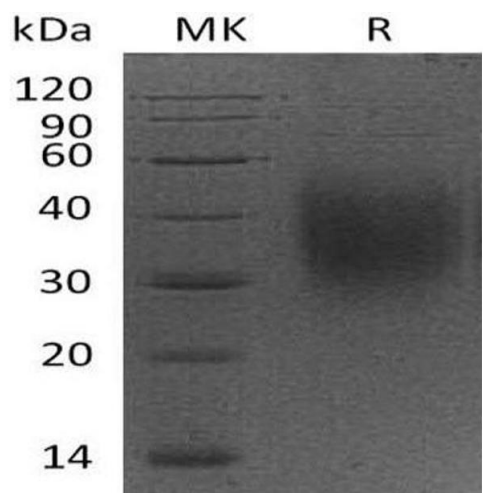
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.