

Datasheet for ABIN7505445

CD47 Protein (CD47) (AA 19-140) (His tag)



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Overview

Quantity:	100 µg
Target:	CD47
Protein Characteristics:	AA 19-140
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD47 protein is labelled with His tag.

Product Details

Sequence:	Gln 19-Lys 140
Characteristics:	A DNA sequence encoding the Mouse CD47 protein (Q61735) (Gln 19-Lys 140) was expressed with N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	CD47
Alternative Name:	CD47 (CD47 Products)
Background:	Abbreviation: CD47 Target Synonym: LAP,OA3,Leukocyte Surface Antigen CD47,Antigenic Surface Determinant Protein OA3,Integrin-Associated Protein,Protein MER6,CD47,MER6 Background: CD47, also known as Integrin-Associated Protein (IAP) and OA3, is a glycosylated

Target Details

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.

Molecular Weight: Calculated MW: 13.31 kDa
Observed MW: 15 kDa

UniProt: [Q61735](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

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.

Expiry Date: 12 months