

Datasheet for ABIN6239909

CD47 Protein (CD47) (AA 18-219) (His tag)



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1 Image

Overview

Quantity:	50 µg
Target:	CD47
Protein Characteristics:	AA 18-219
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This CD47 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 90 %
Biological Activity Comment:	Integrin Associated Protein (IAP) also known as Cluster of Differentiation 47 (CD47) is a transmembrane protein. CD47 belongs to the immunoglobulin superfamily and partners with membrane integrins and also binds the ligands thrombospondin-1 (TSP-1) and signal-regulatory protein alpha (SIRPα). CD47 is involved in a range of cellular processes, including apoptosis, proliferation, adhesion, and migration. Furthermore, it plays a key role in immune and angiogenic responses. CD47 is ubiquitously expressed in human cells and has been found to be overexpressed in many different tumor cells. Besides, Thrombospondin 1 (THBS1) has been identified as an interactor of IAP, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse IAP and recombinant mouse THBS1. Briefly, IAP were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100µL were then transferred to

Product Details

THBS1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IAP pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of IAP and THBS1 was shown in Figure 1, and this effect was in a dose dependent manner. The binding activity of IAP with THBS1.

Target Details

Target:	CD47
Alternative Name:	Integrin Associated Protein (IAP) (CD47 Products)
Background:	Alternative Names: CD47, MER6, OA3, Antigen Identified By Monoclonal Antibody 1D8, Antigenic Surface Determinant Protein OA3, Rh-Related Antigen
Molecular Weight:	23kDa
UniProt:	Q61735

Application Details

Application Notes:	Isoelectric Point: 7.7
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

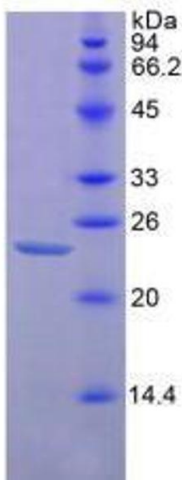


Image 1.