Datasheet for ABIN6239910

CD73 Protein (AA 29-500) (His tag)

1 Image

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Overview

Quantity:	50 µg
Target:	CD73 (NT5E)
Protein Characteristics:	AA 29-500
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This CD73 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:	5'-Nucleotidase, Ecto (NT5E), also known as ecto-5'-nucleotidase or CD73, is an enzyme catalyzing thehydrolysis of nucleoside-5'-monophosphates to nucleosides and inorganic phosphate. The enzyme is a dimer composed of 2 identical 70kD subunits bound by a glycosyl phosphatidyl inositol linkage to the external face of the plasma membrane. NT5E is a marker of lymphocyte differentiation that has functions independent of its catalytic activity, such as T-cell activation and cell-cell adhesion. Other forms of 5-prime nucleotidase exist in the cytoplasm and lysosomes and can be distinguished from NT5E by their substrate affinities, requirement for divalent magnesium ion, activation by ATP, and inhibition by inorganic phosphate. The enzyme is widely distributed in human and animal tissues. Besides, AF4/FMR2 Family, Member 1 (AFF1) has been identified as an interactor of NT5E thus a binding ELISA assay was

Product Details

	conducted to detect the interaction of recombinant human NT5E and recombinant human AFF1. Briefly, NT5E were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to AFF1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-NT5E 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 of NT5E and AFF1 was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of NT5E with AFF1

Target Details

Target:	CD73 (NT5E)
Alternative Name:	5'-Nucleotidase, Ecto (NT5E) (NT5E Products)
Background:	Alternative Names: CD73, NT5-E, E5NT, E5-NT, NTE, EN, ENT
Molecular Weight:	53kDa
UniProt:	P21589
Pathways:	Synaptic Membrane, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Isoelectric Point: 6.4
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.

Images

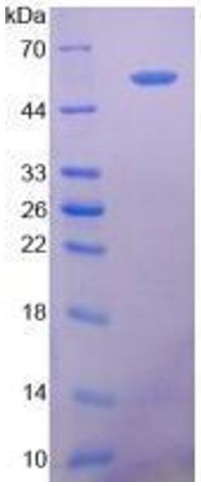

Image 1.