

Datasheet for ABIN6239745

FNDC5 Protein (AA 32-143) (His tag)[Go to Product page](#)**2** Images

Overview

Quantity:	50 µg
Target:	FNDC5
Protein Characteristics:	AA 32-143
Origin:	Human
Source:	HEK-293 Cells
Biological Activity:	Active
Purification tag / Conjugate:	This FNDC5 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 97 %
Biological Activity Comment:	The protein encoded by FNDC5 can be cleaved into Irisin, which is a myokine linked to exercise and lean body mass. It was reported that FNDC5 significantly decreased cell number, migration and viability through apoptosis in malignant MDA-MB-231 cells. Thus MDA-MB-231 cells were seeded overnight at a density of 5,000 cells/well, and treated with or without various concentrations of FNDC5 for 48h, then MDA-MB-231 cells were observed by inverted microscope and cell viability was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10µL of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours in at 37oC. Cell apoptosis of MDA-MB-231 cells after incubation with FNDC5 for 48h observed by inverted microscope was shown in Figure 1. .

Target Details

Target:	FNDC5
Alternative Name:	Fibronectin Type III Domain Containing Protein 5 (FNDC5) (FNDC5 Products)
Background:	Alternative Names: FRCP2, Irisin, Fibronectin type III repeat-containing protein 2
Molecular Weight:	27kDa
UniProt:	Q8NAU1
Pathways:	Hormone Activity , Brown Fat Cell Differentiation , Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	Isoelectric Point: 5
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.6, containing 5 % trehalose.

Images

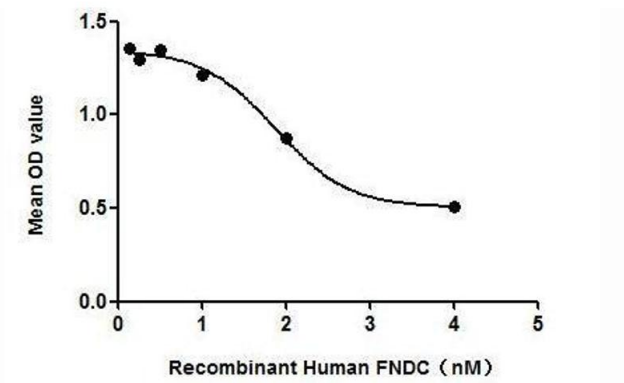


Figure 2. The dose-effect curve of FNDC5 on MDA-MB-231 cells.

Image 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with various concentrations of FNDC5 for 48h. The dose-effect curve of FNDC5 was shown in Figure 2. It was obvious that FNDC5 significantly decreased cell viability of MDA-MB-231 cells. The ED50 for this effect is typically 1.875 nM.

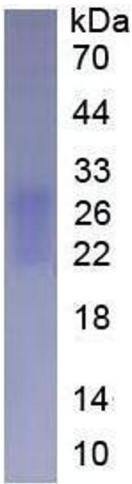


Image 2.