

Fibronectin Type III Domain Containing Protein 5 (FNDC5) Active Protein | FNDC5 active protein

Active Fibronectin Type III Domain Containing Protein 5 (FNDC5)

CATALOG # AAA146625	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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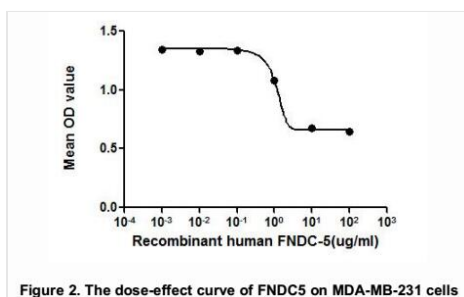
PRODUCT SYNONYMS

Fibronectin Type III Domain Containing Protein 5 (FNDC5); Active Fibronectin Type III Domain Containing Protein 5 (FNDC5); FRCP2; Irisin; Fibronectin type III repeat-containing protein 2; FNDC5 active protein

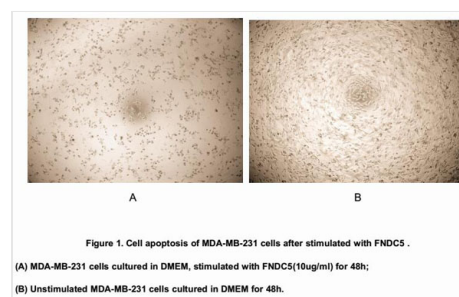
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90%
Form/Format	Freeze-dried powder
Sequence Length	181
Applicable Applications for FNDC5 active protein	Activity Assay, Cell Culture
Fragment	Leu2~Ile137
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Organism Species	Human
Isoelectric Point	6.2
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

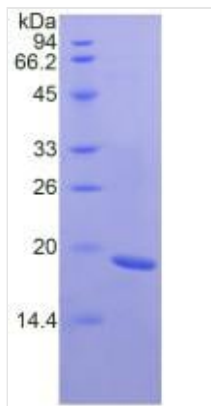
IMAGES



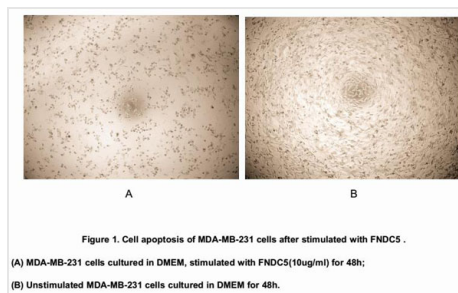
Application Data



Application Data



SDS-PAGE



Activity

Fibronectin type III domain-containing protein 5, the precursor of irisin, is a protein that is encoded by the FNDC5 gene. 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, 10uL 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 at 37oC. Cell apoptosis of MDA-MB-231 cells after incubation with FNDC5 for 48h observed by inverted microscope was shown in Figure 1.

ADDITIONAL INFORMATION

Product Categories/Family for FNDC5 active protein	Active Protein
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NCBI AND UNIPROT INFORMATION

NCBI GI #	511093995
NCBI GeneID	252995
NCBI Accession #	NP_001165411.2
NCBI GenBank Nucleotide #	NM_001171940.1
UniProt Accession #	Q8NAU1; Q6P6D9; Q7Z676; A6NMC9; D3DPQ6
Molecular Weight	16.6kDa; 18kDa
NCBI Official Full Name	fibronectin type III domain-containing protein 5 isoform 3 preproprotein
NCBI Official Synonym Full Names	fibronectin type III domain containing 5
NCBI Official Symbol	FNDC5
NCBI Official Synonym Symbols	FRCP2; irisin
NCBI Protein Information	fibronectin type III domain-containing protein 5
UniProt Protein Name	Fibronectin type III domain-containing protein 5
UniProt Gene Name	FNDC5
UniProt Synonym Gene Names	FRCP2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/fibronectin-type-iii-domain-containing-protein-5-fndc5/146625>