

Active Recombinant Human FNDC5 protein, His-tagged

Cat. No. FNDC5-541H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human FNDC5 protein(Q8NAU1)(32-143 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	32-143 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Fibronectin type III domain-containing protein 5, the precursor of irisin, is a protein that is encoded by the FNDC5 gene. FNDC5 is a 12 kDa glycosylated polypeptide hormone that regulate glycolipid metabolism, cardiovascular homeostasis metabolism, stem cell differentiation, and neuronal development. Brain Derived Neurotrophic Factor (BDNF) has been identified as an interactor of FNDC5, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human FNDC5 and recombinant dog BDNF. Briefly, FNDC5 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to BDNF-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-FNDC5 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution

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to the wells and read at 450/630 nm immediately. The binding activity of recombinant human FNDC5 and recombinant dog BDNF was shown, the EC50 for this effect is 1.64 ug/mL.

Molecular Mass	14.2kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	FNDC5 fibronectin type III domain containing 5 [Homo sapiens]
Official Symbol	FNDC5
Synonyms	FNDC5; fibronectin type III domain containing 5; fibronectin type III domain-containing protein 5; FRCP2; fibronectin type III repeat-containing protein 2;
Gene ID	252995
mRNA Refseq	NM_001171940
Protein Refseq	NP_001165411
MIM	611906

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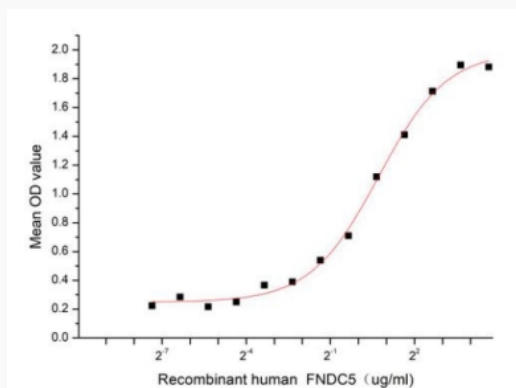
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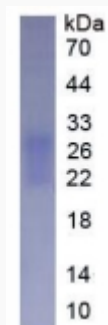
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Activity



SDS-PAGE



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