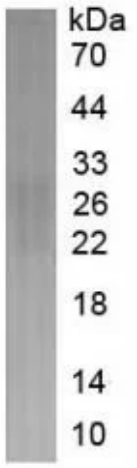
Active Fibronectin Type III Domain Containing Protein 5 (FNDC5)

Catalog#:PHM13008

概述（Summary）

别称（Alternative Names）	FRCP2; Irisin; Fibronectin type III repeat-containing protein 2
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Asp29-Glu140】
Accession #	Q8NAU1
表达宿主（Host）	293F
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	14.2 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in ddH_2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Contrary to mouse, may not be involved in the beneficial effects of muscular exercise, nor in the induction of browning of human white adipose tissue.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

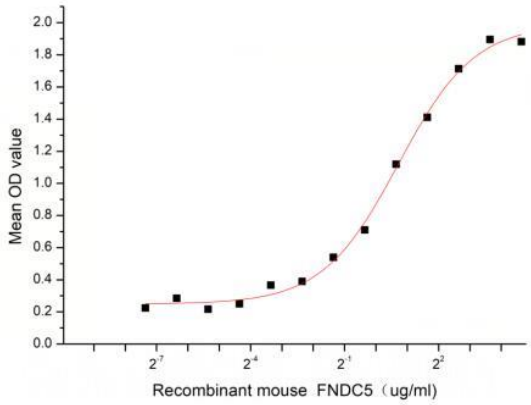


Figure 1. The binding activity of recombinant mouse FNDC5 and recombinant dog BDNF

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 mouse 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℃. 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℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse FNDC5 and recombinant dog BDNF was shown in Figure 1, the EC50 for this effect is 1.64 ug/mL.

注意事项（Note）

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