10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FNDC5 Rabbit mAb

Catalog # AP75444

Product Information

Application	WB
Primary Accession	Q8NAU1
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	28283

Additional Information

Gene ID	252995
Other Names	FNDC5
Dilution	WB~~1:1000-1:5000
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

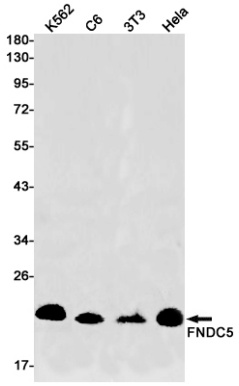
Protein Information

Name	FNDC5
Synonyms	FRCP2
Function	[Irisin]: Mediates beneficial effects of muscular exercise. Induces browning of white adipose tissue by stimulating UCP1 expression, at least in part, via the nuclear receptor PPARA.
Cellular Location	[Fibronectin type III domain-containing protein 5]: Cell membrane; Single-pass membrane protein. Peroxisome membrane {ECO:0000250|UniProtKB:Q8K4Z2}; Single-pass membrane protein. Note=Imported into peroxisomes through the PEX5 receptor pathway. {ECO:0000250|UniProtKB:Q8K4Z2}
Tissue Location	Widely expressed, with highest levels in heart. Very low expression, if any, in colon, pancreas and spleen

Background

fibronectin type III domain containing 5(FNDC5) encodes 23 kDa protein, which is a membrane protein that is cleaved and secreted as a newly identified hormone, irisin. Exercise-induced FNDC5 gene expression in muscles was accompanied by a parallel increase in the concentration of circulating irisin, which in turn activates adipocyte thermogenic programs, leading to mitochondrial heat production and energy expenditure.

Images



Western blot analysis of FNDC5 in K562, C6, 3T3, Hela lysates using FNDC5 antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.