

For Research Use Only

FNDC5 Polyclonal antibody

Catalog Number: 23995-1-AP

30 Publications



Basic Information

Catalog Number:

23995-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG21195

GenBank Accession Number:

BC062297

GeneID (NCBI):

252995

UNIPROT ID:

Q8NAU1

Full Name:

fibronectin type III domain containing 5

Calculated MW:

212 aa, 24 kDa

Observed MW:

25-30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:200-1:800

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse liver tissue, mouse stomach tissue, mouse skeletal muscle tissue, rat liver tissue

IHC: mouse skeletal muscle tissue, mouse brain tissue

Background Information

fibronectin type III domain containing 5 (FNDC5) encodes 23kDa protein, which is a membrane protein that is cleaved and secreted as a newly identified hormone, irisin. The exercise induces muscle FNDC5 expression. 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Xianshengjie Lang	32987101	Brain Res Bull	WB
Wuyang He	32933582	Skelet Muscle	WB
Yi Yan	36341975	Gene Expr Patterns	WB, IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

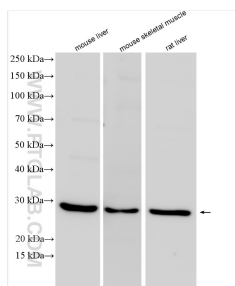
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

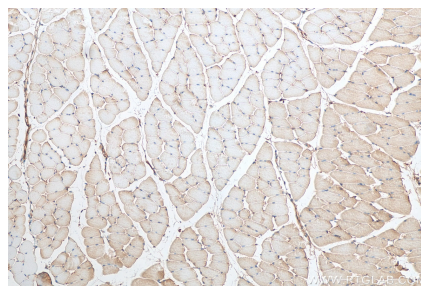
E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 23995-1-AP (FND5 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 23995-1-AP (FND5 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).