

For Research Use Only

# FNDC5 Polyclonal antibody

Catalog Number: 23995-1-AP

32 Publications



## Basic Information

Catalog Number:

23995-1-AP

Concentration:

350 ug/ml

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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

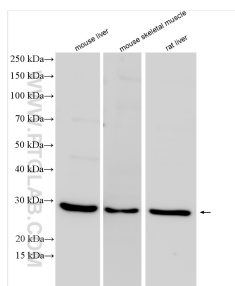
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

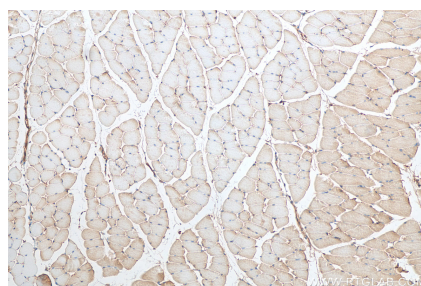
W: [ptgcn.com](http://ptgcn.com)

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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).