

For Research Use Only

# FNDC5 Polyclonal antibody

Catalog Number: 23995-1-AP **26 Publications**



## Basic Information

<b>Catalog Number:</b> 23995-1-AP	<b>GenBank Accession Number:</b> BC062297	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 350 µg/ml	<b>GeneID (NCBI):</b> 252995	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8NAU1	
<b>Isotype:</b> IgG	<b>Full Name:</b> fibronectin type III domain containing 5	
<b>Immunogen Catalog Number:</b> AG21195	<b>Calculated MW:</b> 212 aa, 24 kDa	
	<b>Observed MW:</b> 25-30 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse

**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,

## Background Information

fibronectin type III domain containing 5 (FNDC5) encodes a 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

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

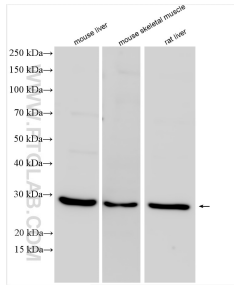
T: 4006900926

E: Proteintech-CN@ptglab.com

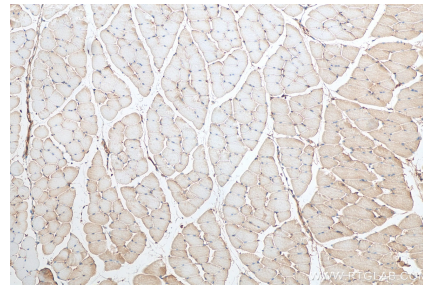
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 23995-1-AP (FNDC5 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 (FNDC5 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).