For Research Use Only

FNDC5 Recombinant antibody

Catalog Number:82671-1-RR

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Basic Information

Catalog Number:
82671-1-RR

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG29714

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:
Protein A purification

CloneNo.:
2H3

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:50-1:500

Applications

Tested Applications:
IHC, WB, ELISA

Species Specificity:
Human, mouse, rat, pig

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 : HepG2 cells, C2C12 cells, mouse skeletal muscle tissue, rat skeletal muscle tissue, pig skeletal muscle tissue, mouse stomach tissue, rat stomach tissue

IHC : mouse skeletal muscle tissue,

Background Information

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.

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:
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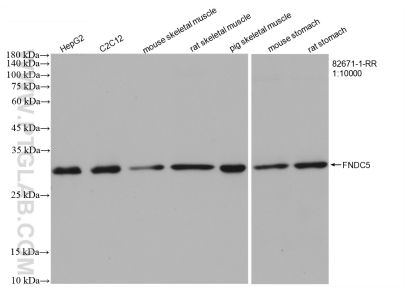
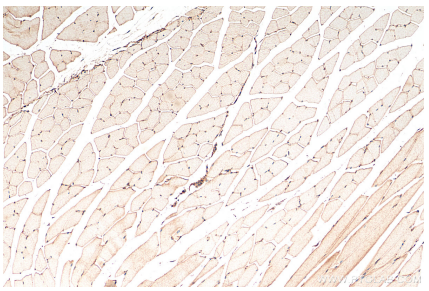
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82671-1-RR (FNDC5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 82671-1-RR (FNDC5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).