For Research Use Only

# Adiponectin Monoclonal antibody

Catalog Number:66239-1-Ig 4 Publications

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## Basic Information

Catalog Number:
66239-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG17383

GenBank Accession Number:
BC096308

GeneID (NCBI):
9370

UNIPROT ID:
Q15848

Full Name:
adiponectin, C1Q and collagen domain containing

Calculated MW:
244 aa, 26 kDa

Observed MW:
29 kDa

Purification Method:
Protein G purification

CloneNo.:
5D8A7

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:16000-1:64000
IF 1:200-1:800

## Applications

Tested Applications:
IF/ICC, IHC, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
mouse, 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 : human adipose tissue,

IHC : mouse skeletal muscle tissue, mouse skin tissue, human placenta tissue, human prostate cancer tissue, mouse brown adipose tissue, rat brown adipose tissue

IF : 3T3-L1 cells,

## Background Information

Adiponectin (AdipoQ), an adipocyte-derived hormone, is one of the most abundant adipokines in the blood circulation. Adiponectin modulates a number of metabolic processes, including improving INS sensitivity and anti-inflammatory activity. The role of AdipoQ in reproduction is not yet fully understood, but the expression of AdipoQ in reproductive tissues has been observed in various animals and humans, including chicken testis, bovine ovary, and human placenta. Adiponectin exerts its effects by activating a range of different signaling molecules via binding to two transmembrane AdipoQ receptors, AdipoR1 and AdipoR2. AdipoR1 is expressed primarily in the skeletal muscle, whereas AdipoR2 is predominantly expressed in the liver. AdipoQ May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors.

## Notable Publications

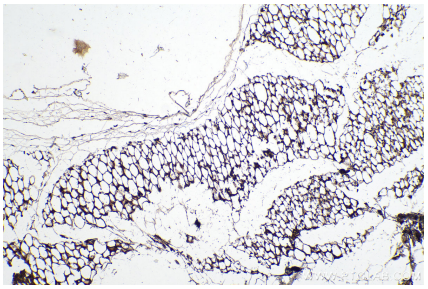
| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Xiaoling Chen | 34543141 | Anim Biotechnol | WB |
| Lu Xiang | 33703997 | Anim Biotechnol | WB |
| Xiaoling Chen | 33667291 | Food Funct | WB |

## Storage

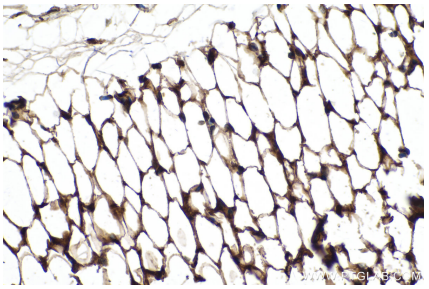
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

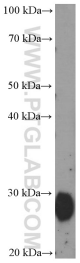
## Selected Validation Data



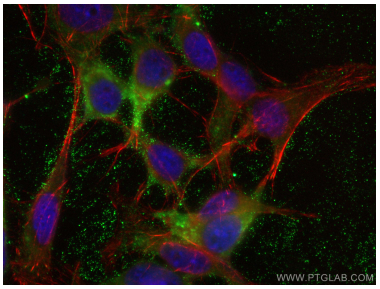
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 66239-1-Ig (Adiponectin antibody) at dilution of 1:32000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 66239-1-Ig (Adiponectin antibody) at dilution of 1:32000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




human adipose tissue were subjected to SDS PAGE followed by western blot with 66239-1-Ig (ADIPOQ Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.




Immunofluorescent analysis of (-20°C Ethanol) fixed 3T3-L1 cells using Adiponectin antibody (66239-1-Ig, Clone: 5D8A7 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).