

Adiponectin Monoclonal antibody

Catalog Number: 66239-1-Ig **9 Publications**

Basic Information

Catalog Number: 66239-1-Ig	GenBank Accession Number: BC096308	Purification Method: Protein G purification
Concentration: 1000 ug/ml	GeneID (NCBI): 9370	CloneNo.: 5D8A7
Source: Mouse	UNIPROT ID: Q15848	Recommended Dilutions: WB 1:500-1:2000 IHC 1:200-1:800 IF/ICC 1:200-1:800
Isotype: IgG1	Full Name: adiponectin, C1Q and collagen domain containing	
Immunogen Catalog Number: AG17383	Calculated MW: 244 aa, 26 kDa	
	Observed MW: 29 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IF	WB : human adipose tissue,
Species Specificity: human, mouse, rat	IHC : rat brown adipose tissue, human placenta tissue, human prostate cancer tissue, mouse brown adipose tissue, mouse skeletal muscle tissue, mouse skin tissue
Cited Species: human, mouse, pig	IF/ICC : 3T3-L1 cells, human adipose-derived mesenchymal stem cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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, pH7.3
Aliquoting is unnecessary for -20°C storage

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

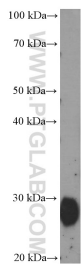
T: 4006900926

E: Proteintech-CN@ptglab.com

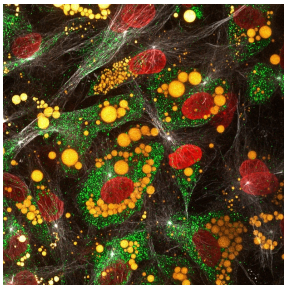
W: ptgcn.com

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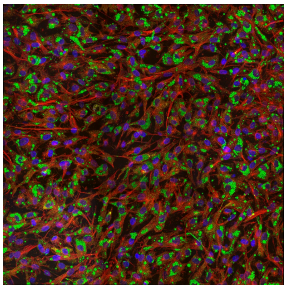
Selected Validation Data



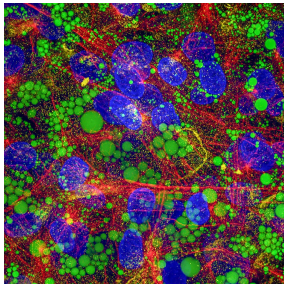
human adipose tissue were subjected to SDS PAGE followed by western blot with 66239-1-Ig (ADIPOQ Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



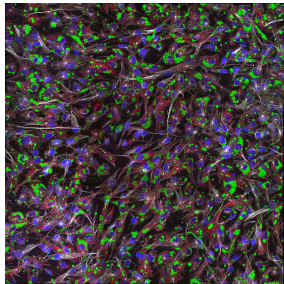
IF in human adipose-derived mesenchymal stem cells undergoing adipogenesis. Sample was stained for neutral fat droplets (orange), alpha-tubulin using CoraLite 594-conjugated Alpha Tubulin Recombinant Antibody (CL594-80762, white), adiponectin using Adiponectin Mouse Monoclonal Antibody (66239-1-Ig) and Multi-rAb CoraLite Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (RGAM005, green). Nuclei shown in red. (Image credit: Shuntaro Yamada, PhD, University of Bergen)



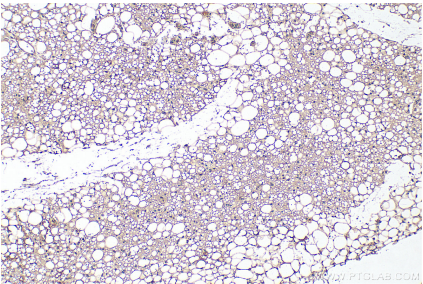
IF in human adipose-derived mesenchymal stem cells undergoing adipogenesis. Sample was stained for neutral fat droplets (green), alpha-tubulin using CoraLite 594-conjugated Alpha Tubulin Recombinant Antibody (CL594-80762, red), and adiponectin using Adiponectin Mouse Monoclonal Antibody (66239-1-Ig) and Multi-rAb CoraLite Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (RGAM005, yellow). Nuclei shown in blue. (Image credit: Shuntaro Yamada, PhD,



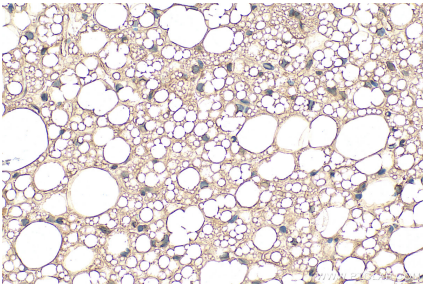
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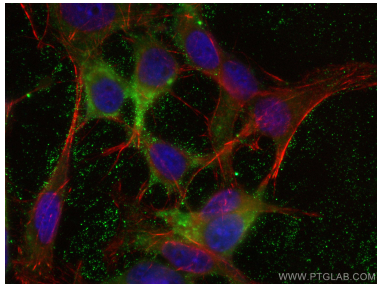
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Immunohistochemical analysis of paraffin-embedded rat brown adipose tissue slide using 66239-1-Ig (Adiponectin antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brown adipose tissue slide using 66239-1-Ig (Adiponectin antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).