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Datasheet for 600-401-G72

Adiponectin Antibody

Overview

Description:	Anti-Adiponectin (RABBIT) Antibody - 600-401-G72
Item No.:	600-401-G72
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Adiponectin antibody detects human adiponectin. Adipose tissue of an organism plays a major role in regulating physiologic and pathologic processes such as metabolism and immunity by producing and secreting a variety of bioactive molecules termed adipokines. One highly conserved family of adipokines is adiponectin/ACRP30 and its structural and functional paralogs, the C1q/tumor necrosis factor-alpha-related proteins (CTRPs) 1-7. Unlike the CTRPs, which are expressed in a wide variety of tissues, adiponectin is reported to be expressed exclusively by differentiated adipocytes. These proteins are thought to act mainly on liver and muscle tissue to control glucose and lipid metabolism. An analysis of the crystal structure of adiponectin revealed a structural and evolutionary link between TNF and C1q-containing proteins, suggesting that these proteins arose from a common ancestral innate immunity gene. It is present in high levels in normal human plasma, but is reduced in obese subjects and often in those with increased insulin resistance and type 2 diabetes, suggesting that adiponectin may be a useful pharmacological target in various metabolic diseases. Anti-Adiponectin antibodies are ideal for investigators involved in glucose energy metabolism and apolipoprotein research.
Synonyms:	ACDC, ACRP30, APM1, GBP28
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ADIPOQ

Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Adiponectin Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide from near the c-terminus of human adiponectin.
Purity/Specificity:	Anti-Adiponectin Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with Adiponectin with Human, Mouse and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with Adiponectin from other sources has not been determined.
Relevant Links:	• NCBI - NP_004788 • UniProtKB - Q15848 • GeneID - 9370

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Adiponectin Antibody is tested for use in E, WB, IF, and IHC. Expect a band approximately ~26.4 kDa on specific lysates. Western Blot tested in human samples; Immunohistochemistry in mouse and rat samples and Immunofluorescence in mouse and rat samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	20µg/mL
IHC:	5µg/mL
WB:	0.5-2µg/mL

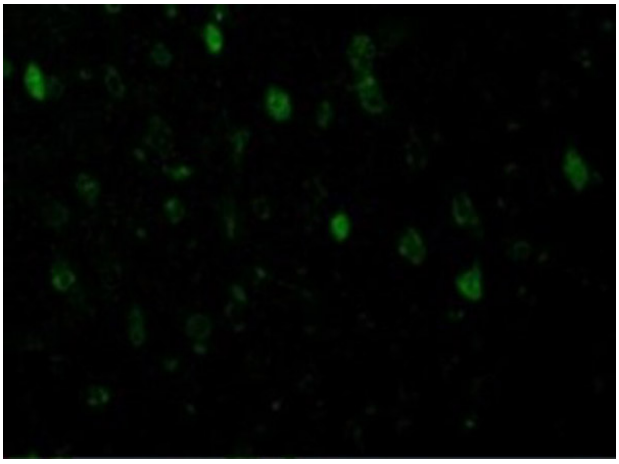
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

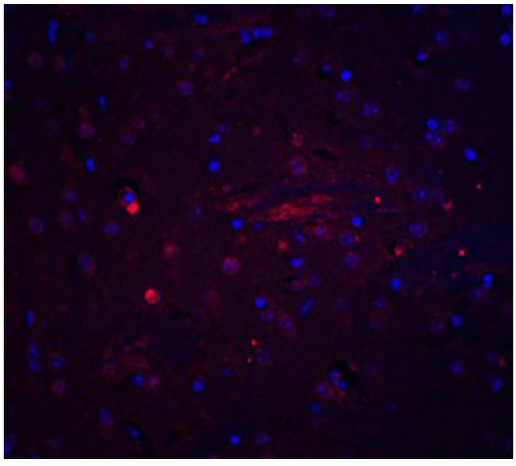
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

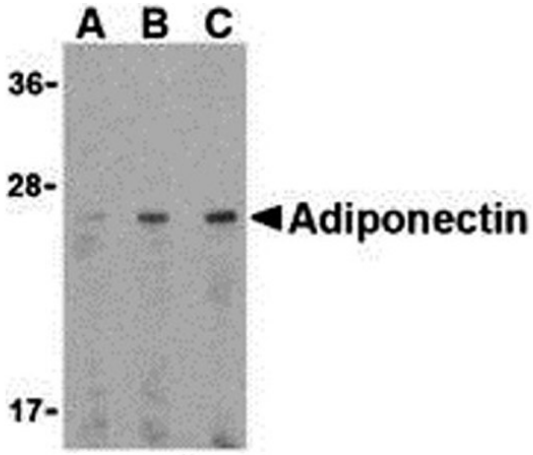
Images



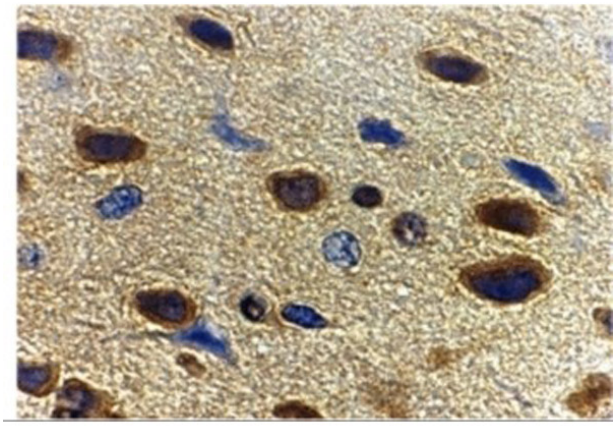
Immunofluorescence Microscopy
Immunofluorescence of Adiponectin.
Cell: Rat Brain cells.
Primary Antibody: Anti-Adiponectin antibody at 10 µg/mL.



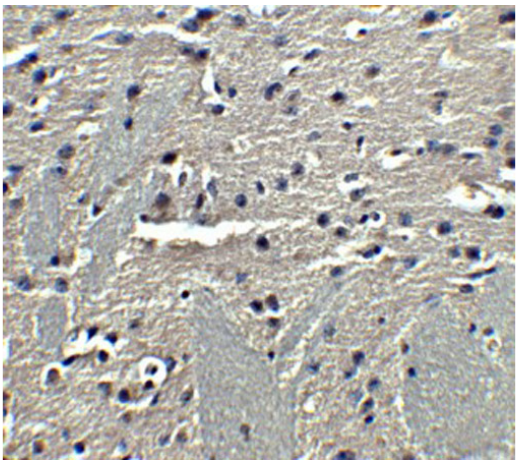
Immunofluorescence Microscopy
Immunofluorescence of Adiponectin.
Tissue: mouse brain tissue.
Primary Antibody: Anti-Adiponectin antibody at 20 µg/mL.
Staining: Adiponectin Antibody (red), DAPI (blue).



Western Blot
Western blot analysis of adiponectin.
Load: HL60 cell lysate.
Primary Antibody: Anti-adiponectin antibody at (A) 0.5µg/mL, (B) 1µg/mL, and (C) 2µg/mL.



Immunohistochemistry
Immunohistochemistry of adiponectin.
Tisuue: rat brain tissue.
Primary Antibody: Anti-adiponectin antibody at 10 µg/mL.



Immunohistochemistry
Immunohistochemistry of Adiponectin.
Tissue: mouse brain tissue.
Primary Antibody: Anti-Adiponectin antibody at 5 µg/ml.

Disclaimer

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