

Product datasheet for **TA306227**

Adiponectin (ADIPOQ) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 10 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Adiponectin antibody was raised against a 15 amino acid synthetic peptide from near the carboxy terminus of human adiponectin. The immunogen is located within the last 50 amino acids of Adiponectin.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	adiponectin, C1Q and collagen domain containing
Database Link:	NP_004788 Entrez Gene 9370 Human Q15848



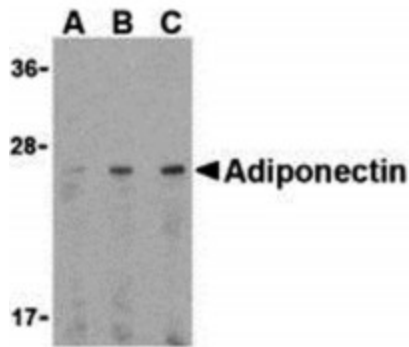
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Background:

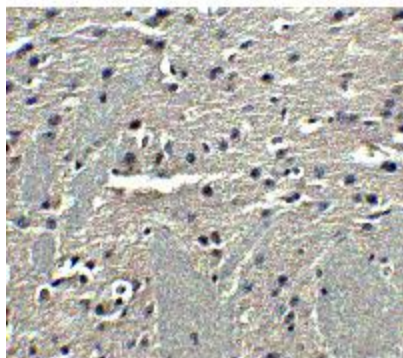
Adipose tissue of an organism plays a major role in regulating physiologic and pathologic processes such as metabolism and immunity by producing and secreting a variety of bioactive molecules termed adipokines (reviewed in 1). One highly conserved family of adipokines is adiponectin/ACRP30 and its structural and functional paralogs, the C1q/tumor necrosis factor- α -related proteins (CTRPs) 1-7 (2). Unlike the CTRPs, which are expressed in a wide variety of tissues, adiponectin is reported to be expressed exclusively by differentiated adipocytes (3). 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 (4). 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 (5).

Synonyms:

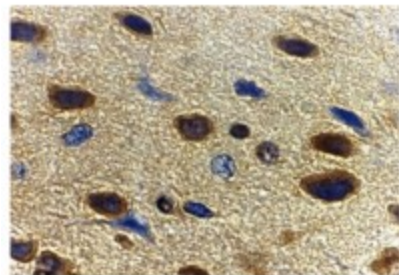
ACDC; ACRP30; ADIPQTL1; ADPN; APM-1; APM1; GBP28

Product images:


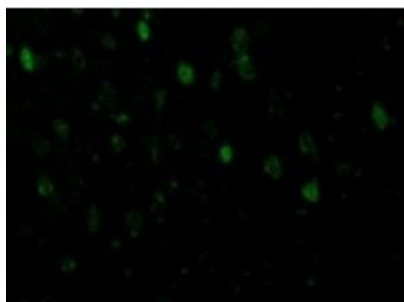
Western blot analysis of adiponectin in HL60 cell lysate with adiponectin antibody at (A) 0.5, (B) 1, and (C) 2 μ g/ml.



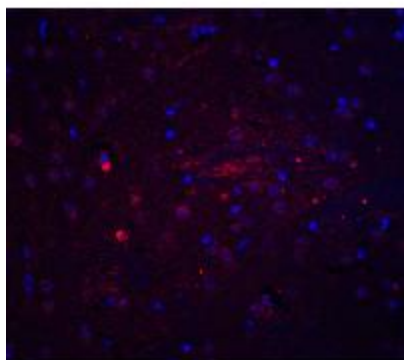
Immunohistochemistry of Adiponectin in mouse brain tissue with Adiponectin antibody at 5 μ g/ml.



Immunohistochemistry of adiponectin in rat brain tissue with adiponectin antibody at 10ug/ml.



Immunofluorescence of Adiponectin in Rat Brain cells with Adiponectin antibody at 10ug/ml.



Immunofluorescence of Adiponectin in mouse brain tissue with Adiponectin antibody at 20ug/ml.