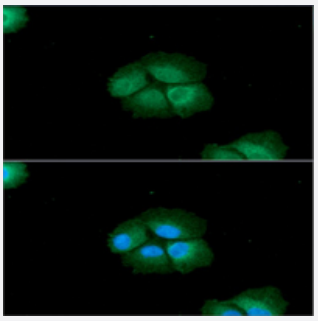
ADIPOQ monoclonal antibody, clone 5H7

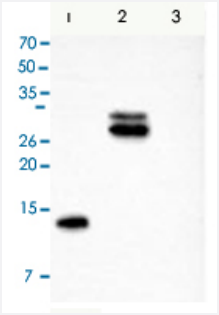
Catalog # MAB1072 Size 100 uL

Applications



Immunocytochemistry

Immunocytochemistry analysis of Hep3B cells. The cell was stained with ADIPOQ monoclonal antibody, clone 5H7 (Cat#MAB1072) (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



Western Blot (Transfected lysate)

Western blot analysis of Lane 1: Adiponectin collagen domain(15-107 a.a.) transfected 293T cell lysate; Lane 2: Adiponectin Full domain(15-244 a.a.) transfected 293T cell lysate; Lane 3: Adiponectin globular domain (108-244 a.a.) transfected 293T cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant ADIPOQ.
Immunogen	Recombinant protein corresponding to amino acids 15-244 of human ADIPOQ.
Host	Mouse
Reactivity	Human, Mouse
Specificity	This antibody has the specificity against collagen-like domain of ADIPOQ.
Form	Liquid
Purification	Protein G purification

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Isotype	IgG1, kappa
Recommend Usage	ELISA Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence
- Immunocytochemistry

  Immunocytochemistry analysis of Hep3B cells. The cell was stained with ADIPOQ monoclonal antibody, clone 5H7 (Cat#MAB1072) (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Transfected lysate)

  Western blot analysis of Lane 1: Adiponectin collagen domain(15-107 a.a.) transfected 293T cell lysate; Lane 2: Adiponectin Full domain(15-244 a.a.) transfected 293T cell lysate; Lane 3: Adiponectin globular domain (108-244 a.a.) transfected 293T cell lysate.

Gene Info — ADIPOQ

Entrez GeneID	9370
GeneBank Accession#	NM_004797
Protein Accession#	NP_004788
Gene Name	ADIPOQ
Gene Alias	ACDC, ACRP30, ADPN, APM-1, APM1, GBP28, adiponectin
Gene Description	adiponectin, C1Q and collagen domain containing

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Omim ID	605441
Gene Ontology	Hyperlink
Gene Summary	This gene is expressed in adipose tissue exclusively. It encodes a protein with similarity to collagens X and VIII and complement factor C1q. The encoded protein circulates in the plasma and is involved with metabolic and hormonal processes. [provided by RefSeq
Other Designations	adipocyte, C1Q and collagen domain containing|adipocyte, C1Q and collagen domain-containing|adiponectin|adipose most abundant gene transcript 1|gelatin-binding protein 28

Publication Reference

- Adiponectin stimulates glucose utilization and fatty-acid oxidation by activating AMP-activated protein kinase.

  Yamauchi T, Kamon J, Minokoshi Y, Ito Y, Waki H, Uchida S, Yamashita S, Noda M, Kita S, Ueki K, Eto K, Akanuma Y, Froguel P, Foufelle F, Ferre P, Carling D, Kimura S, Nagai R, Kahn BB, Kadowaki T.

  Nature Medicine 2002 Nov; 8(11):1288.

- ACRP30/adiponectin: an adipokine regulating glucose and lipid metabolism.

  Berg AH, Combs TP, Scherer PE.

  Trends in Endocrinology and Metabolism 2002 Mar; 13(2):84.

- The adipocyte-secreted protein Acrp30 enhances hepatic insulin action.

  Berg AH, Combs TP, Du X, Brownlee M, Scherer PE.

  Nat Med 2001 Aug; 7(8):947.

Application: ELISA, WB, Mouse, Serum, Plasma

Pathway

- Adipocytokine signaling pathway
- PPAR signaling pathway
- Type II diabetes mellitus

Disease

- Acute Disease

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- Adenocarcinoma
- Albuminuria
- Alzheimer disease
- Anorexia Nervosa
- Atherosclerosis
- Birth Weight
- Body Weight
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cellulitis
- Cerebral Infarction
- Cerebrovascular Accident
- Colorectal Neoplasms
- Coronary Artery Disease
- Coronary Disease
- Coronary Stenosis
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies

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- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Disease Progression
- Dyslipidemias
- Edema
- Esophageal Neoplasms
- Fatty Liver
- Genetic Predisposition to Disease
- Glomerulonephritis
- Glucose Intolerance
- Glucose Metabolism Disorders
- HIV Infections
- HIV-Associated Lipodystrophy Syndrome
- Hyperaldosteronism
- Hyperandrogenism
- Hypercholesterolemia
- Hyperglycemia
- Hyperinsulinism
- Hyperlipidemias
- Hypertension
- Inflammation
- Insulin Resistance
- Intracranial Arteriosclerosis
- Ischemia
- Kidney Failure

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- Liver Cirrhosis
- Lupus Erythematosus
- Lymphoma
- Metabolic Diseases
- Metabolic Syndrome X
- Multiple Organ Failure
- Myocardial Infarction
- Neoplasms
- Obesity
- Osteoporosis
- Ovarian Failure
- Overweight
- Pancreatitis
- Polycystic Ovary Syndrome
- Pre-Eclampsia
- Pregnancy Complications
- Prostate cancer
- Prostatic Neoplasms
- Proteinuria
- Psychiatric Status Rating Scales
- Puberty
- Renal Insufficiency
- Schizophrenia
- Thinness
- Thrombophilia
- Tobacco Use Disorder

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- Vascular Diseases
- Weight Gain
- Weight Loss
- Werner syndrome

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