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Mouse Monoclonal Antibody to ADIPOQ

Purified Mouse Monoclonal Antibody
Catalog # AO2492a

Product Information

Application	WB, FC, E
Primary Accession	Q15848
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3A12D5
Isotype	Mouse IgG2b
Calculated MW	26414
Description	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. Mutations in this gene are associated with adiponectin deficiency. Multiple alternatively spliced variants, encoding the same protein, have been identified.;
Immunogen	Purified recombinant fragment of human ADIPOQ (AA: 16-154) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400

Additional Information

Gene ID	9370
Other Names	ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1
Dilution	WB~~1:1000 FC~~1:10~50 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Monoclonal Antibody to ADIPOQ is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

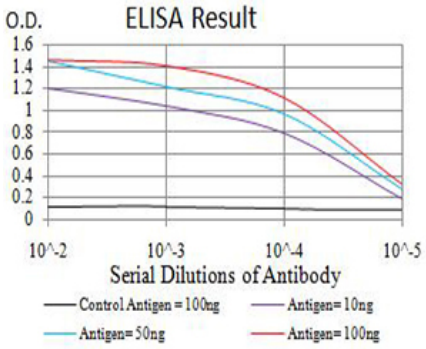
Name	ADIPOQ

Function	Important adipokine involved in the control of fat metabolism and insulin sensitivity upon binding to its receptors ADIPOR1 or ADIPOR2, with direct anti-diabetic effect. Also has anti-atherogenic and anti-inflammatory activities (By similarity). Stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion (By similarity). Antagonizes TNF by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway (PubMed:10982546). May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW (By similarity).
Cellular Location	Secreted.
Tissue Location	Synthesized exclusively by adipocytes and secreted into plasma.

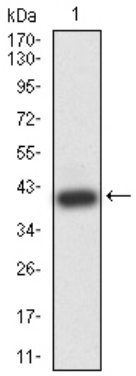
References

1.Oncotarget. 2015 Oct 13;6(31):32205-11. ; 2.Clin Biochem. 2015 Sep;48(13-14):860-5. ;

Images

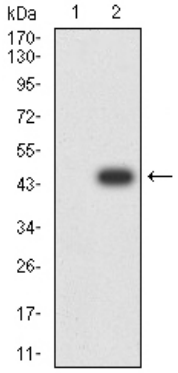


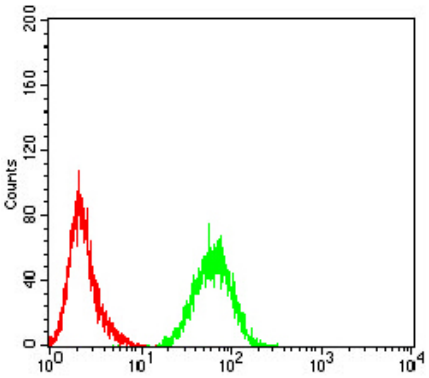
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using ADIPOQ mAb against human ADIPOQ (AA: 16-154) recombinant protein. (Expected MW is 40.5 kDa)

Western blot analysis using ADIPOQ mAb against HEK293 (1) and ADIPOQ (AA: 16-154)-hIgGFc transfected HEK293 (2) cell lysate.





Flow cytometric analysis of Hela cells using ADIPOQ mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.