

Anti-Adiponectin antibody ab3455

18 References **3 图像**

概述

产品名称	Anti-Adiponectin抗体
描述	兔多克隆抗体to Adiponectin
宿主	Rabbit
特异性	Detects Acrp30 from mouse serum. We have data to indicate that this antibody may not cross react with Human. However, this has not been conclusively tested and expression levels may vary in certain cell lines/tissues.
经测试应用	适用于: ICC, WB
种属反应性	与反应: Mouse
免疫原	<p>This product was produced with the following immunogens:</p> <p>Synthetic peptide corresponding to Mouse Adiponectin aa 1-100.</p> <p>Synthetic peptide corresponding to Mouse Adiponectin aa 150-250.</p>

 [Run BLAST with ExPASy](#)

 [Run BLAST with NCBI](#)

 [Run BLAST with NCBI](#)

常规说明

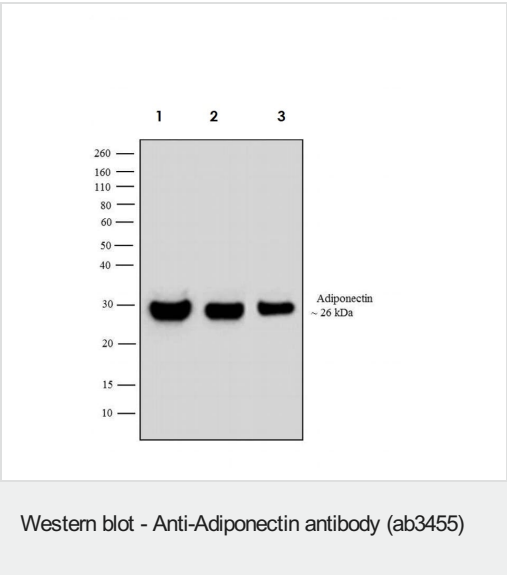
The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
纯度	Protein A purified
克隆	多克隆

同种型	IgG	
应用		
The Abpromise guarantee Abpromise™ 承诺保证使用ab3455于以下的经测试应用		
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。		
应用	Ab评论	说明
ICC		Use a concentration of 2 µg/ml.
WB		Use a concentration of 4 - 8 µg/ml. Detects a band of approximately 30 kDa.
靶标		
功能	Important adipokine involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Antagonizes TNF-alpha 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. 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.	
组织特异性	Synthesized exclusively by adipocytes and secreted into plasma.	
疾病相关	Defects in ADIPOQ are the cause of adiponectin deficiency (ADPND) [MIM:612556]. ADPND results in very low concentrations of plasma adiponectin. Genetic variations in ADIPOQ are associated with non-insulin-dependent diabetes mellitus (NIDDM) [MIM:125853]; also known as diabetes mellitus type 2. NIDDM is characterized by an autosomal dominant mode of inheritance, onset during adulthood and insulin resistance.	
序列相似性	Contains 1 C1q domain. Contains 1 collagen-like domain.	
结构域	The C1q domain is commonly called the globular domain.	
翻译后修饰	Hydroxylated Lys-33 was not identified in PubMed:16497731, probably due to poor representation of the N-terminal peptide in mass fingerprinting. HMW complexes are more extensively glycosylated than smaller oligomers. Hydroxylation and glycosylation of the lysine residues within the collagen-like domain of adiponectin seem to be critically involved in regulating the formation and/or secretion of HMW complexes and consequently contribute to the insulin-sensitizing activity of adiponectin in hepatocytes. O-glycosylated. Not N-glycosylated. O-linked glycans on hydroxylysines consist of Glc-Gal disaccharides bound to the oxygen atom of post-translationally added hydroxyl groups. Sialylated to varying degrees depending on tissue. Thr-22 appears to be the major site of sialylation. Higher sialylation found in SGBS adipocytes than in HEK fibroblasts. Sialylation is not required neither for heterodimerization nor for secretion. Not sialylated on the glycosylated hydroxylysines. Desialylated forms are rapidly cleared from the circulation.	
细胞定位	Secreted.	



All lanes : Anti-Adiponectin antibody (ab3455) at 2 µg/ml

Lane 1 : Mouse adipose tissue extract in 3T3-L1 conditioned media

Lane 2 : Mouse adipose tissue extract in NIH/3T3 conditioned media

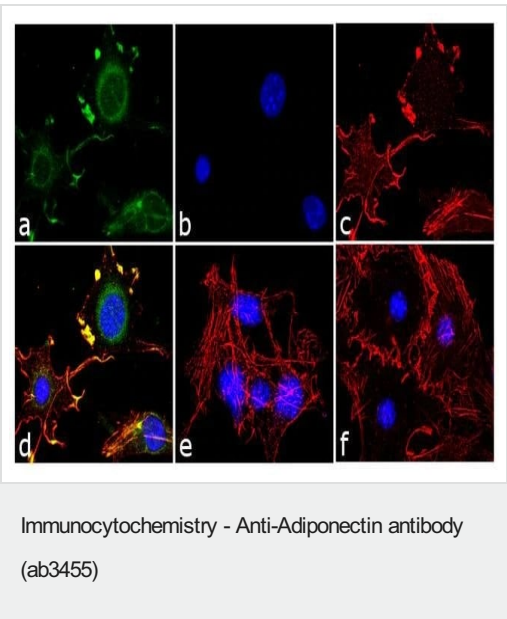
Lane 3 : Mouse adipose tissue extract in BM-MSC differentiated conditioned media

Lysates/proteins at 30 µg per lane.

Secondary

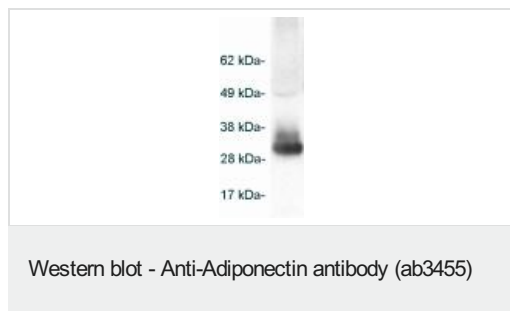
All lanes : Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate at 1/4000 dilution

Developed using the ECL technique.



Immunofluorescence analysis of Adiponectin was performed using 70% confluent 3T3-L1 cells differentiated with Adipogenesis Assay Kit (Cell-Based)([ab133102](#)) for 5 days. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 min, blocked with 1% BSA for 1 hour at room temperature.

The cells were labeled with Adiponectin Polyclonal Antibody (ab3455) at 2 µg/ml in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed ([ab150081](#)) at a dilution of 1/2000 for 45 minutes at room temperature, panel A (green). Panel B (blue): nuclei were stained with DAPI. Panel C (red), F-actin was stained with Alexa Fluor®555 rhodamine phalloidin ([ab235138](#)) at 1/3000 dilution. Panel D represents the merged image showing cytoplasmic localization. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Western blot detection of Adiponectin on mouse serum using ab3455.

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