

Anti-Adiponectin antibody ab3455

18 References **画像数 3**

製品の概要

製品名	Anti-Adiponectin antibody
製品の詳細	Rabbit polyclonal to Adiponectin
由来種	Rabbit
特異性	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.
アプリケーション	適用あり: ICC, WB
種交差性	交差種: Mouse
免疫原	This product was produced with the following immunogens: Synthetic peptide corresponding to Mouse Adiponectin aa 1-100. Synthetic peptide corresponding to Mouse Adiponectin aa 150-250.



特記事項

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

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
精製度	Protein A purified
ポリ/モノ	ポリクローナル

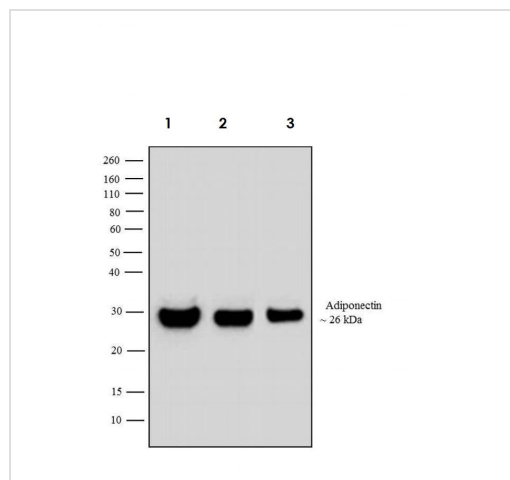
アプリケーション

The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab3455の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC		Use a concentration of 2 µg/ml.
WB		Use a concentration of 4 - 8 µg/ml. Detects a band of approximately 30 kDa.

ターゲット情報

機能	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.
組織特異性	Synthesized exclusively by adipocytes and secreted into plasma.
関連疾患	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.
配列類似性	Contains 1 C1q domain. Contains 1 collagen-like domain.
ドメイン	The C1q domain is commonly called the globular domain.
翻訳後修飾	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.
細胞内局在	Secreted.



Western blot - Anti-Adiponectin antibody (ab3455)

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

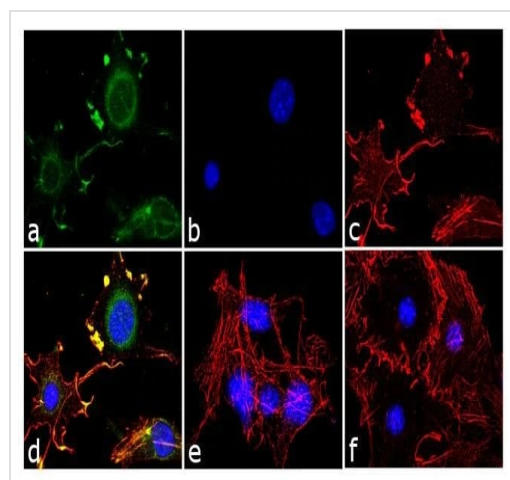
Lane 3 : Mouse adipose tissue extract in BM-MSC differentiated conditioned media

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

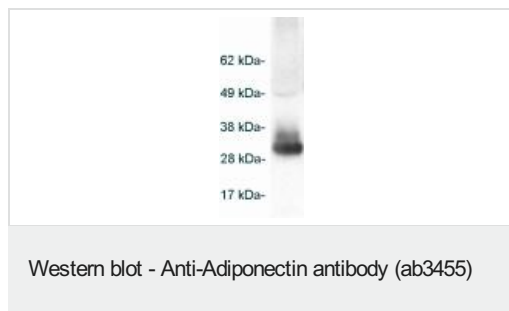
Developed using the ECL technique.



Immunocytochemistry - Anti-Adiponectin antibody (ab3455)

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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