

Anti-Adiponectin antibody [EPR3218] ab133347

リコンビナント RabMAb

2 References [画像数 5](#)

製品の概要

製品名	Anti-Adiponectin antibody [EPR3218]
製品の詳細	Rabbit monoclonal [EPR3218] to Adiponectin
由来種	Rabbit
アプリケーション	適用あり: WB 適用なし: Flow Cyt, ICC/IF, IHC-P or IP
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human fat, placenta and plasma lysates. HUH7, Human adipose and plasma lysate. Mouse white adipose and plasma lysate. Rat white adipose and plasma lysate. Rat-1 whole cell lysate
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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 long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR3218

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ab133347の使用に適用されず**
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
WB		1/1000 - 1/10000. Predicted molecular weight: 26 kDa.

追加情報

Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

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.

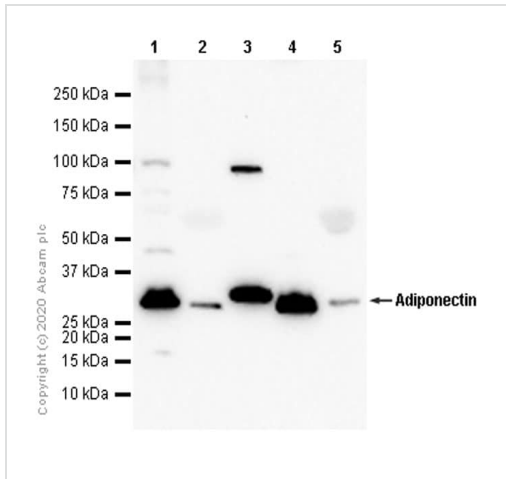
翻訳後修飾

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.

画像



Western blot - Anti-Adiponectin antibody [EPR3218] (ab133347)

All lanes : Anti-Adiponectin antibody [EPR3218] (ab133347) at 1/1000 dilution (Purified)

Lane 1 : Mouse white adipose lysate

Lane 2 : Mouse plasma lysate

Lane 3 : Rat-1 (Rat embryonic fibroblast) whole cell lysate

Lane 4 : Rat white adipose lysate

Lane 5 : Rat plasma lysate

Lysates/proteins at 20 µg per lane.

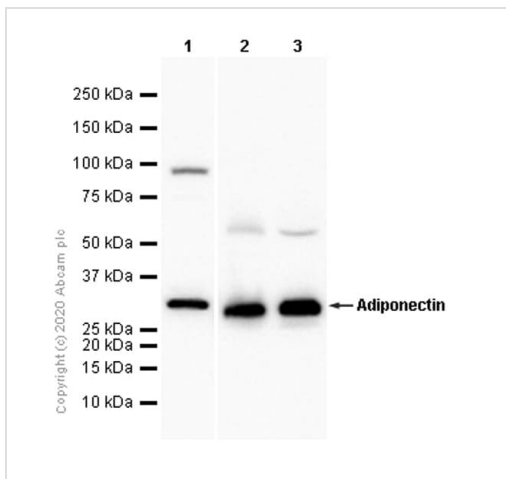
Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 26 kDa

Observed band size: 30 kDa

The expression profile and molecular weight observed are consistent with what have been described in the literatures (PMID: 15855314, 23967179).



Western blot - Anti-Adiponectin antibody [EPR3218] (ab133347)

All lanes : Anti-Adiponectin antibody [EPR3218] (ab133347) at 1/1000 dilution (Purified)

Lane 1 : Huh7 (Human hepatocellular carcinoma epithelial cell) whole cell lysate

Lane 2 : Human adipose lysate

Lane 3 : Human plasma lysate

Lysates/proteins at 20 µg per lane.

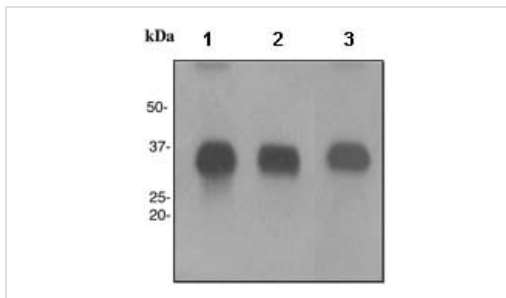
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Western blot - Anti-Adiponectin antibody [EPR3218] (ab133347)

All lanes : Anti-Adiponectin antibody [EPR3218] (ab133347) at 1/1000 dilution

Lane 1 : Human fat lysate

Lane 2 : Human placenta lysate

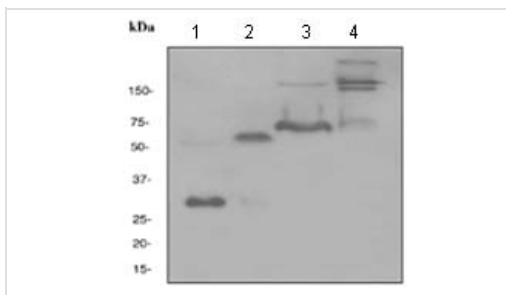
Lane 3 : Human plasma lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 26 kDa



Western blot - Anti-Adiponectin antibody [EPR3218] (ab133347)

All lanes : Anti-Adiponectin antibody [EPR3218] (ab133347)

Lane 1 : Human plasma lysate treated with Beta-ME and heat

Lane 2 : Human plasma lysate treated with heat only

Lane 3 : Human plasma lysate treated with Beta-ME only

Lane 4 : Human plasma lysate untreated

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 26 kDa

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

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