

Recombinant Mouse Adiponectin (mutated C39A) protein  
ab94676

1 References    画像数 1

製品の詳細

製品名	Recombinant Mouse Adiponectin (mutated C39A) protein		
精製度	> 98 % SDS-PAGE.		
発現系	HEK 293 cells		
タンパク質長	Full length protein		
Animal free	No		
由来	Recombinant		
生物種	Mouse		
配列	EDDVTTTEEL   APALVPPPKG   TAAGWMAGIP GHPGHNGTPG   RDGRDGTPE   KGEKGDAGLL GPKGETGDVG   MTGAEGPRGF   PGTPGRKGEP GEAAYMYRSA   FSVGLETRVT   VPNVPIRFTK IFYNQQNHVD   GSTGKFYCNI   PGLYYFSYHI TVYMKDVKVS   LFKKDKAVLF   TYDQYQEKV DQASGSVLLH   LEVGDQVWLQ   VYGDGDHNGL YADNVNDSTF   TGFLLYHDTN   DYKDDDDK		
修飾	mutated C39A		

特性

Our **Abpromise guarantee** covers the use of **ab94676** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Functional Studies
	Western blot
	ELISA
製品の状態	Lyophilized
備考	The cysteine 39 was replaced with alanine (C39A)9. mAd-C39A can only form trimer, but not hexamer or HMW form.

## 前処理および保存

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### 保存方法および安定性

Shipped at 4°C. Store at -20°C.

Constituent: PBS

### 再構成

Add 100µl of deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile, please filter the product by an appropriate sterile filter before using it in cell culture. Aliquot reconstituted protein and avoid repeated freezing/thawing cycles and store at -80°C for long term storage.

## 関連情報

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### 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.

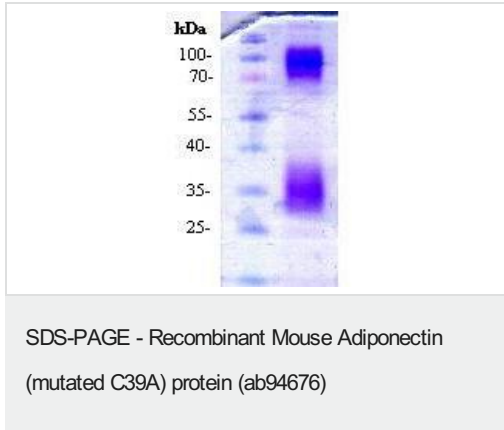
Desialylated forms are rapidly cleared from the circulation.

### 細胞内局在

Secreted.

## 画像

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SDS-PAGE analysis of Mouse Adiponectin protein (Trimeric form)

Lane 1: MW marker

Lane 2: non-reduced/non heated Adiponectin protein

Gel concentration: 12%.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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