

Recombinant Mouse Adiponectin (mutated C39A) protein ab94676

1 References 1 图像

描述	
产品名称	重组小鼠Adiponectin (mutated C39A)蛋白
纯度	> 98 % SDS-PAGE.
表达系统	HEK 293 cells
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Mouse
序列	EDDVTTTEEL APALVPPPKG TAAGWMAGIP GHPGHNGTPG RDGRDGPGE KGEKGDAGLL GPKGETGDVG MTGAEGPRGF PGTPGRKGEP GEAAYMYRSA FSVGLETRVT VPNVPIRFTK IFYNQQNHYD GSTGKFYCNI PGLYYFSYHI TVYMKDVKVS LFKKDKAVLF TYDQYQEKNV DQASGSVLLH LEVGDQVWLQ VYGDGDHNGL YADNVNDSTF TGFLLYHDTN DYKDDDDK
修饰	mutated C39A

技术指标	
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.	
应用	Functional Studies Western blot ELISA
形式	Lyophilized
补充说明	The cysteine 39 was replaced with alanine (C39A)9. mAd-C39A can only form trimer, but not hexamer or HMW form.

制备和贮存

稳定性和存储

Shipped at 4°C. Store at -20°C.

Constituent: PBS

复溶

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.

常规信息

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.

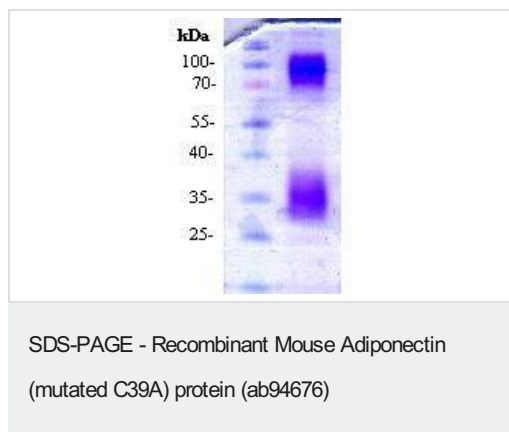
O-glycosylated. Not N-glycosylated. O-linked glycans on hydroxylysines consist of Glc-Gal disaccharides bound to the oxygen atom of post-translationally added hydroxyl groups. Sialylated to varying degrees depending on tissue. Thr-22 appears to be the major site of sialylation. Higher sialylation found 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.

图片



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

Lane 1: MW marker

Lane 2: non-reduced/non heated Adiponectin protein

Gel concentration: 12%.

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