

Product datasheet

Recombinant Mouse Adiponectin protein ab62957

画像数 1

製品の概要

製品名	Recombinant Mouse Adiponectin protein
タンパク質長	Full length protein

製品の詳細

由来	Recombinant
由来	Escherichia coli

アミノ酸配列

アクセッション番号 [NP_033735](#)

生物種 Mouse

配列 **GSSHHHHH SGLVPRGSH MEDDVTTEE**
 LAPALVPPPK GTCAGWMAGI PGHPGHNGTP
 GRDGRDGP G EKGEGDAGL LGPKGETGDV
 GMTGAEGPRG FPGTPGRKGE PGAAAYVYRS
 AFSVGLETRV TVPNVPIRFT KIFYNQNHY
 DGSTGKFYCN IPGLYYFSYH ITVYMKDVKV
 SLFKKDKAVL FTYDQYQEKV VDQASGSVLL
 HLEVG DQVWL QVYGDGDHNG LYADNVNDST
 FTGFLLYHDT N

分子量	27 kDa
領域	18 to 247
タグ	His tag N-Terminus

特性

Our [Abpromise guarantee](#) covers the use of **ab62957** 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	SDS-PAGE
エンドトキシン・レベル	< 1.000 Eu/μg
精製度	> 90 % SDS-PAGE. purified by using conventional chromatography techniques

製品の状態

Liquid

前処理および保存

保存方法および安定性

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 10% Glycerol, 20mM Tris, 1mM DTT, pH 8

関連情報

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.

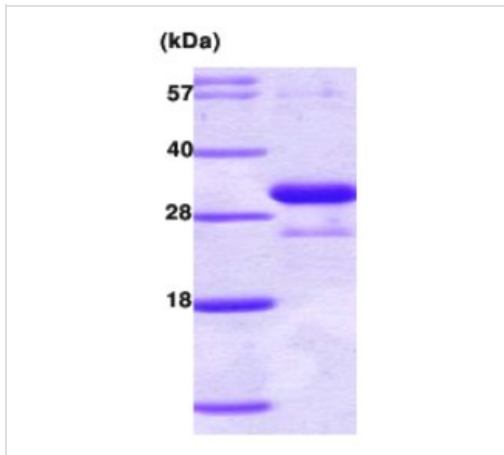
O-glycosylated. Not N-glycosylated. O-linked glycans on hydroxylysines consist of Glc-Gal disaccharides bound to the oxygen atom of post-translationally added hydroxyl groups.

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



SDS Page analysis of ab62957 (3ug, 15% gel)

SDS-PAGE - Adiponectin protein (His tag)
(ab62957)

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