

Recombinant Mouse Apolipoprotein E (His tag) ab226314

1 References 1 图像

描述	
产品名称	重组小鼠Apolipoprotein E (His tag)
纯度	> 90 % SDS-PAGE.
表达系统	Escherichia coli
Accession	P08226
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Mouse
序列	EGEPEVTDQLEWQSNQPWEQALNRFWDYLRWVQTLSDQVQEE LQSSQVTQ ELTALMEDTMTEVKAYKKELEEQLGPVAEETRARLGKEVQAA QARLGADM EDLRNRLGQYRNEVHTMLGQSTEEIRARLSTHLRKMRKRLMR DAEDLQKR LAVYKAGAREGAERGVS AIRERLGPLVEQGRQRTANLGAGAA QPLRDRAQ AFGDRIRGRLEE VGNQARDRLEE VREHMEEVRSKMEEQTQQI RLQAEIFQ ARLKGWFEPIVEDMHRQWANLMEKIQASVATNP IITPVAQEN Q
预测分子量	38 kDa including tags
氨基酸	19 to 311
标签	His tag N-Terminus
额外的序列信息	This product is the mature full length protein from aa 19 to 311. The signal peptide is not included.

技术指标	
Our Abpromise guarantee covers the use of ab226314 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	SDS-PAGE
形式	Liquid

制备和贮存

稳定性和存储

Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.2

Constituents: 50% Glycerol (glycerin, glycerine), Tris buffer

常规信息

功能

Mediates the binding, internalization, and catabolism of lipoprotein particles. It can serve as a ligand for the LDL (apo B/E) receptor and for the specific apo-E receptor (chylomicron remnant) of hepatic tissues.

组织特异性

Occurs in all lipoprotein fractions in plasma. It constitutes 10-20% of very low density lipoproteins (VLDL) and 1-2% of high density lipoproteins (HDL). APOE is produced in most organs. Significant quantities are produced in liver, brain, spleen, lung, adrenal, ovary, kidney and muscle.

疾病相关

Defects in APOE are a cause of hyperlipoproteinemia type 3 (HLPP3) [MIM:107741]; also known as familial dysbetalipoproteinemia. Individuals with HLPP3 are clinically characterized by xanthomas, yellowish lipid deposits in the palmar crease, or less specific on tendons and on elbows. The disorder rarely manifests before the third decade in men. In women, it is usually expressed only after the menopause. The vast majority of the patients are homozygous for APOE*2 alleles. More severe cases of HLPP3 have also been observed in individuals heterozygous for rare APOE variants. The influence of APOE on lipid levels is often suggested to have major implications for the risk of coronary artery disease (CAD). Individuals carrying the common APOE*4 variant are at higher risk of CAD.

Genetic variations in APOE are associated with Alzheimer disease type 2 (AD2) [MIM:104310]. It is a late-onset neurodegenerative disorder characterized by progressive dementia, loss of cognitive abilities, and deposition of fibrillar amyloid proteins as intraneuronal neurofibrillary tangles, extracellular amyloid plaques and vascular amyloid deposits. The major constituent of these plaques is the neurotoxic amyloid-beta-APP 40-42 peptide (s), derived proteolytically from the transmembrane precursor protein APP by sequential secretase processing. The cytotoxic C-terminal fragments (CTFs) and the caspase-cleaved products such as C31 derived from APP, are also implicated in neuronal death. Note=The APOE*4 allele is genetically associated with the common late onset familial and sporadic forms of Alzheimer disease. Risk for AD increased from 20% to 90% and mean age at onset decreased from 84 to 68 years with increasing number of APOE*4 alleles in 42 families with late onset AD. Thus APOE*4 gene dose is a major risk factor for late onset AD and, in these families, homozygosity for APOE*4 was virtually sufficient to cause AD by age 80. The mechanism by which APOE*4 participates in pathogenesis is not known.

Defects in APOE are a cause of sea-blue histiocyte disease (SBHD) [MIM:269600]; also known as sea-blue histiocytosis. This disorder is characterized by splenomegaly, mild thrombocytopenia and, in the bone marrow, numerous histiocytes containing cytoplasmic granules which stain bright blue with the usual hematologic stains. The syndrome is the consequence of an inherited metabolic defect analogous to Gaucher disease and other sphingolipidoses.

Defects in APOE are a cause of lipoprotein glomerulopathy (LPG) [MIM:611771]. LPG is an uncommon kidney disease characterized by proteinuria, progressive kidney failure, and distinctive lipoprotein thrombi in glomerular capillaries. It mainly affects people of Japanese and Chinese origin. The disorder has rarely been described in Caucasians.

序列相似性

Belongs to the apolipoprotein A1/A4/E family.

翻译后修饰

Synthesized with the sialic acid attached by O-glycosidic linkage and is subsequently desialylated

in plasma. O-glycosylated with core 1 or possibly core 8 glycans. Thr-307 is a minor glycosylation site compared to Ser-308.

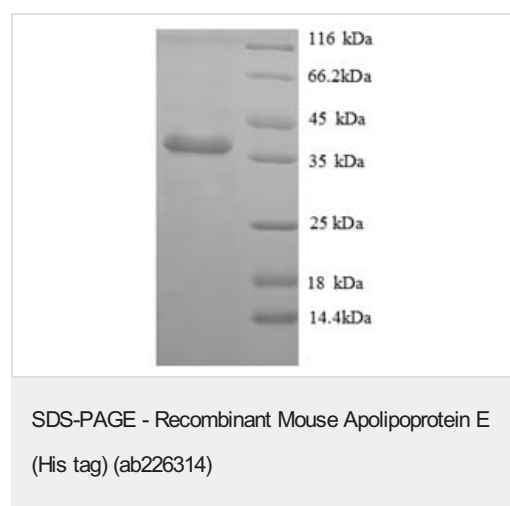
Glycated in plasma VLDL of normal subjects, and of hyperglycemic diabetic patients at a higher level (2-3 fold).

Phosphorylation sites are present in the extracellular medium.

细胞定位

Secreted.

图片



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis of ab226314 with 5% enrichment gel and 15% separation gel.

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