abcam

Product datasheet

Recombinant Human Apolipoprotein E ab55210

<u>1 References</u> 画像数 3

製品の詳細	
製品名	Recombinant Human Apolipoprotein E
精製度	> 90 % SDS-PAGE. Purified by affinity chromatography Endotoxin level: < 0.1 ng per µg of ApoE2
発現系	Escherichia coli
アクセッション番号	<u>P02649</u>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	MKVEQAVETE PEPELRQQTE WQSGQRWELA
	LGRFWDYLRW VQTLSEQVQE ELLSSQVTQE
	LRALMDETMK ELKAYKSELE EQLTPVAEET
	RARLSKELQA AQARLGADME DVCGRLVQYR
	GEVQAMLGQS TEELRVRLAS HLRKLRKRLL
	RDADDLQKCL AVYQAGAREG AERGLSAIRE
	RLGPLVEQGR VRAATVGSLA GQPLQERAQA
	WGERLRARME EMGSRTRDRL DEVKEQVAEV
	RAKLEEQAQQ IRLQAEAFQA RLKSWFEPLV
	EDMQRQWAGL VEKVQAAVGT SAAPVPSDNH
予測される分子量	34 kDa

特性

Our <u>Abpromise guarantee</u> covers the use of ab55210 in the following tested applications.

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

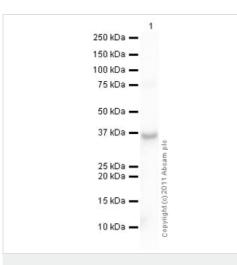
アプリケーション	SDS-PAGE
	Western blot
	HPLC
製品の状態	Lyophilized
備考	This product is for the isoform APOE2

保存方法および安定性	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
	pH: 7.8 Constituents: 0.328% Sodium phosphate, 0.0077% (R*,R*)-1,4-Dimercaptobutan-2,3-diol
再構成	Centrifuge the vial prior to opening. Reconstitute in 20 mM Sodium Phosphate, pH 7.8 + 0.5 mM DTT to a concentration of 0.1-1.0 mg/mL. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer (e.g. PBS) containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

関連情報	
機能	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.
組織特異性	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.
関連疾患	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 familia and sporadic forms of Alzheimer disease. Risk for AD increasing number of APOE*4 alleles in 42 families with late onset AD. Thus 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 his

	Chinese origin. The disorder has rarely been described in Caucasians.
配列類似性	Belongs to the apolipoprotein A1/A4/E family.
翻訳後修飾	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 extracelllular medium.
細胞内局在	Secreted.

画像



Western blot - Recombinant Human Apolipoprotein E (ab55210) Anti-Apolipoprotein E antibody (**ab85311**) at 1 µg/ml + Recombinant Human Apolipoprotein E (ab55210) at 0.1 µg

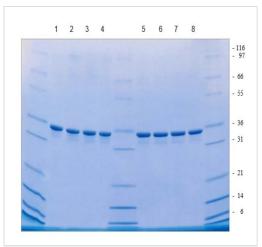
Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (<u>ab97080</u>) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 4 minutes

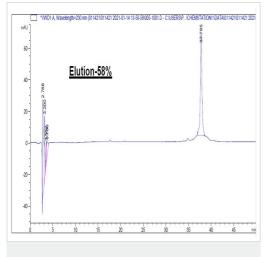


SDS-PAGE - Recombinant Human Apolipoprotein E (ab55210)

SDSIPAGE gel with 4 I 20% TrisIglycine gel. All lanes contain Human ApoE2.

Lanes 1-4: Unreduced

Lanes 5-8: Reduced



HPLC analysis of ab55210

HPLC - Recombinant Human Apolipoprotein E (ab55210)

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