abcam

Product datasheet

Anti-Apolipoprotein E antibody [D6E10] - BSA and Azide free ab1906

9 Abreviews 54 References 画像数 3

製品の概要

製品名	Anti-Apolipoprotein E antibody [D6E10] - BSA and Azide free
製品の詳細	Mouse monoclonal [D6E10] to Apolipoprotein E - BSA and Azide free
由来種	Mouse
特異性	Mouse reactivity: Please be aware that we have received positive as well as negative feedback for reactivity of this antibody with mouse samples. The antibody is not being batch-tested in the mouse samples. Anti-Apolipoprotein E antibody [D6E10] recognizes the E2, E3 and E4 isoforms of apolipoprotein E. It was raised against a peptide sequence corresponding to aa 141-160 of human Apo-E.
アプリケーション	**適用あり:** IHC-P
種交差性	**交差種:** Human
免疫原	Synthetic peptide corresponding to Apolipoprotein E aa 100-200. Run BLAST with ExPASy Run BLAST with NCBI
特記事項	This product was changed from ascites to tissue culture supernatant on 2nd February 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Constituent: PBS
キャリア・フリー	はい

特記事項（精製）	Purified from TCS
ポリ/モノ	モノクローナル
クローン名	D6E10
アイソタイプ	IgG1
軽鎖の種類	kappa

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab1906の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P	★★★★☆ (1)	Use a concentration of 5 - 10 µg/ml. Antigen retrieval is not essential but may optimise staining. The staining intensity of formalin-fixed paraffin embedded tissues may be significantly improved by pretreatment methods such as: 70% Formic acid for 10-30 minutes at room temperature or Hydrolytic autoclaving.

ターゲット情報

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 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.

配列類似性

Belongs to the apolipoprotein A1/A4/E family.

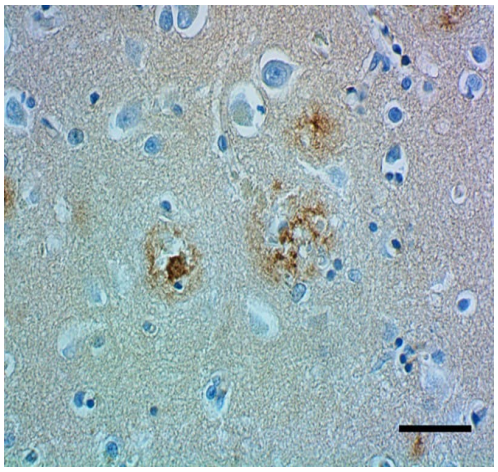
翻訳後修飾

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

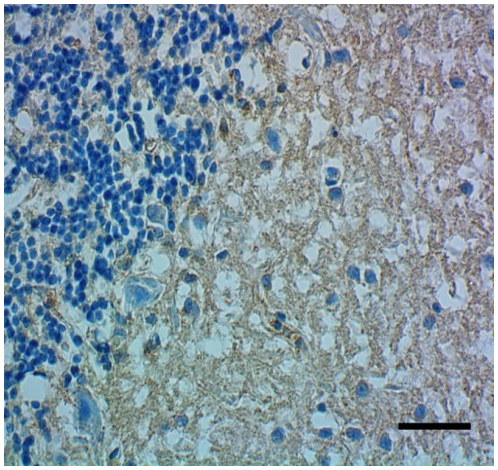
Secreted.

画像



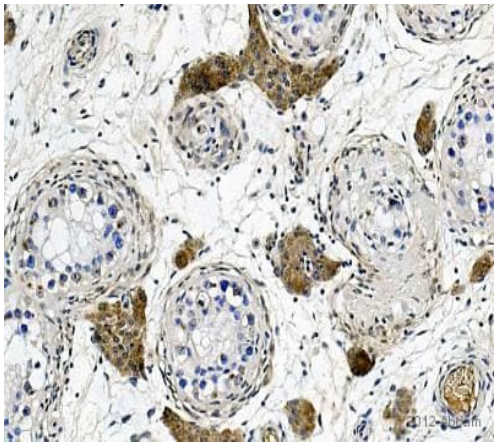
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Apolipoprotein E antibody [D6E10] - BSA and Azide free (ab1906)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Alzheimer’s disease brain tissue labelling Apolipoprotein E with ab1906. The tissue was incubated with 5 µg/mL of the primary antibody overnight at 4°C. Antigen retrieval was performed using Sodium Citrate H.I.E.R. Counterstained with hematoxylin. The image was captured with a 40X objective. Scale bar: 50 µm.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Apolipoprotein E antibody [D6E10] - BSA and Azide free (ab1906)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebellum tissue labelling Apolipoprotein E with ab1906. The tissue was incubated with 10 µg/mL of the primary antibody overnight at 4°C. Antigen retrieval was performed using Sodium Citrate H.I.E.R. Counterstained with hematoxylin. The image was captured with a 40X objective. Scale bar: 50 µm.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Apolipoprotein E antibody [D6E10] - BSA and Azide free (ab1906)

This image is courtesy of an Abreview submitted by Carl Hobbs.

ab1906 staining Apolipoprotein E in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 10 minutes at 21°C; antigen retrieval was by heat mediation in citric acid. Samples were incubated with primary antibody (1/200 in TBS/BSA/azide) for 2 hours at 21°C. An undiluted biotin-conjugated goat anti-mouse IgG polyclonal was used as the secondary antibody.

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