Datasheet for ABIN968962

anti-APOE antibody

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Overview

Quantity:	100 µL
Target:	APOE
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This APOE antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human ApoE expressed in E. coli.
Clone:	1H4
Isotype:	IgG1
Purification:	purified

Target Details

Target:	APOE
Alternative Name:	ApoE (APOE Products)
Background:	Description: Chylomicron remnants and very low density lipoprotein (VLDL) remnants are rapidly removed from the circulation by receptor-mediated endocytosis in the liver. Apolipoprotein E, a main apoprotein of the chylomicron, binds to a specific receptor on liver cells and peripheral cells. ApoE is essential for the normal catabolism of triglyceride-rich

Target Details

	lipoprotein constituents. The APOE gene is mapped to chromosome 19 in a cluster with APOC1 and APOC2. Defects in apolipoprotein E result in familial dysbetalipoproteinemia, or type III hyperlipoproteinemia (HLP III), in which increased plasma cholesterol and triglycerides are the consequence of impaired clearance of chylomicron and VLDL remnants. Tissue specificity: 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. Aliases: AD2, LPG, LDLCQ5, MGC1571
Molecular Weight:	36 kDa
Gene ID:	348
HGNC:	348
Pathways:	Regulation of Cell Size, Lipid Metabolism

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

Publications

Product cited in:	Gertych, Oh, Wawrowsky, Weisenberger, Tajbakhsh: "3-D DNA methylation phenotypes correlate with cytotoxicity levels in prostate and liver cancer cell models." in: **BMC pharmacology & toxicology**, Vol. 14, pp. 11, (2013) (PubMed).

Publications

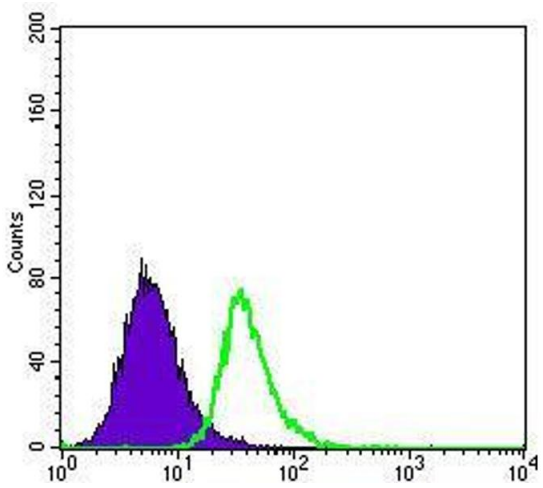
Tajbakhsh: "Covisualization of methylcytosine, global DNA, and protein biomarkers for In Situ 3D DNA methylation phenotyping of stem cells." in: **Methods in molecular biology (Clifton, N.J.)**, Vol. 1052, pp. 77-88, (2013) (PubMed).

Fukuda, Ichiyanagi, Yamada, Go, Udono, Wada, Maeda, Soejima, Saitou, Ito, Sasaki: "Regional DNA methylation differences between humans and chimpanzees are associated with genetic changes, transcriptional divergence and disease genes." in: **Journal of human genetics**, Vol. 58, Issue 7, pp. 446-54, (2013) (PubMed).

Kurita, Arai, Nakamoto, Kato, Niwa: "Determination of DNA methylation using electrochemiluminescence with surface accumulable coreactant." in: **Analytical chemistry**, Vol. 84, Issue 4, pp. 1799-803, (2012) (PubMed).

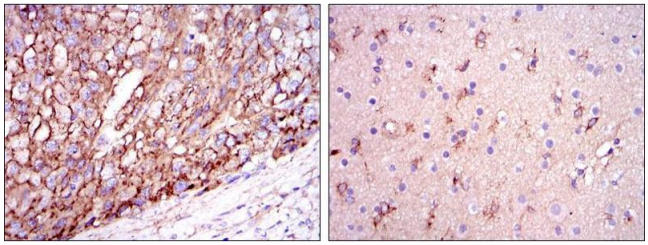
Kurita, Niwa: "DNA methylation analysis triggered by bulge specific immuno-recognition." in: **Analytical chemistry**, Vol. 84, Issue 17, pp. 7533-8, (2012) (PubMed).

Images



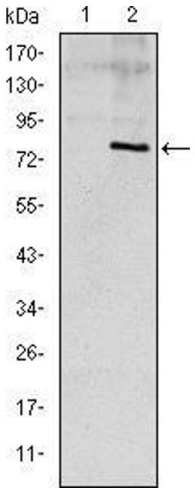
Flow Cytometry

Image 1. Flow cytometric analysis of HepG2 cells using ApoE mouse mAb (green) and negative control (purple).



Immunohistochemistry

Image 2. Immunohistochemical analysis of paraffin-embedded liver cancer tissues (left) and brain tissues (right) using ApoE mouse mAb with DAB staining.



Western Blotting

Image 3. Western blot analysis using ApoE mAb against HEK293 (1) and ApoE (AA: 20-267)-hIgGFc transfected HEK293 (2) cell lysate.

Please check the product details page for more images. Overall 4 images are available for ABIN968962.