

Anti-APOE4 Antibody [PSH02-85] - BSA and Azide free

HA750838



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 36 kDa
Clone number:	PSH02-85

Description: Apolipoprotein-E (apoE) is a protein component of plasma lipoproteins that mediates the binding, internalization and catabolism of lipoprotein particles. It can serve as a ligand for several lipoprotein receptors, including the LDL (ApoB/E) receptor and the hepatic apoE (chylomicron remnant) receptor. apoE is produced in most organs and occurs in all plasma lipoprotein fractions, constituting 10-20% of VLDL (very low density lipoprotein) and 1-2% of HDL (high density lipoprotein). Three major isoforms of apoE have been described in human (E2, E3 and E4) which differ by only one or two amino acids. Estrogen receptor has been shown to upregulate apoE gene expression via the ERe-mediated pathway, indicating a potential role for apoE in atherosclerosis. This is consistent with studies in mice in which plasma apoE levels were raised, thereby protecting the mice from diet-induced atherosclerosis. apoE has also been shown to be a potent inhibitor of proliferation and thus may play a role in angiogenesis, tumor cell growth and metastasis.

Immunogen: Synthetic peptide within human Apolipoprotein E aa 101-150 / 317.

Subcellular location: Secreted, extracellular space, extracellular matrix.

Database links: SwissProt: P02649 Human

Recommended Dilutions:

WB 1:2,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

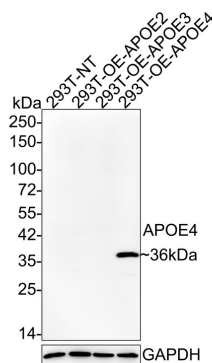
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of APOE4 on different lysates with Rabbit anti-APOE4 antibody (HA750838) at 1/2,000 dilution.

Lane 1: 293T-NT cell lysate
 Lane 2: 293T-OE-APOE2 cell lysate
 Lane 3: 293T-OE-APOE3 cell lysate
 Lane 4: 293T-OE-APOE4 cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 36 kDa

Observed band size: 36 kDa

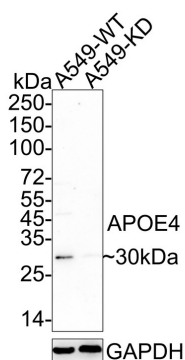
Exposure time: 2 minutes 50 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750838) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of APOE4 on different lysates with Rabbit anti-APOE4 antibody (HA750838) at 1/2,000 dilution.

Lane 1: A549-WT cell lysate
 Lane 2: A549-KD APOE4 cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 36 kDa

Observed band size: 30 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750838) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Yang LG et al. Apolipoprotein E in lipid metabolism and neurodegenerative disease. Trends Endocrinol Metab. 2023 Aug
2. Saito T et al. Apolipoprotein E-related glomerular disorders. Kidney Int. 2020 Feb

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