

Apolipoprotein E Rabbit pAb

Catalog Number: bs-4892R

Target Protein: Apolipoprotein E

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:50-200)

Reactivity: Human, Mouse, Rat

Predicted MW: 38 kDa

Entrez Gene: 348

Swiss Prot: P02649

Source: KLH conjugated synthetic peptide derived from human APOE/Apo E2: 151-250/317.

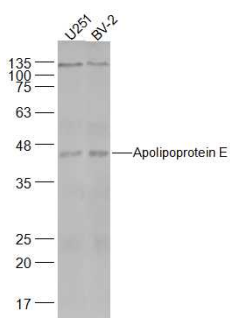
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

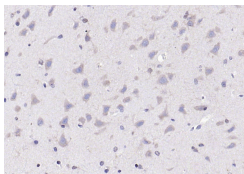
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Apolipoprotein E, a main apoprotein of the chylomicron, binds to a specific receptor on liver cells and peripheral cells and is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. ApoE exists in three major isoforms; E2, E3, and E4, which differ from one another by a single amino-acid substitution. Compared with E3 and E4, E2 exhibits the lowest receptor binding affinity. Defects in ApoE are a cause of hyperlipoproteinemia type III due to increased plasma cholesterol and triglycerides levels which are the consequence of impaired clearance of chylomicron and VLDL remnants.

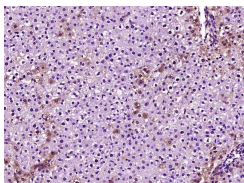
VALIDATION IMAGES



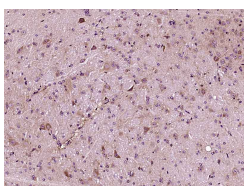
Sample: U251(Human) Cell Lysate at 30 ug BV-2(Mouse) Cell Lysate at 30 ug Primary: Anti-Apolipoprotein E (bs-4892R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 43 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Apolipoprotein E) Polyclonal Antibody, Unconjugated (bs-4892R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Apolipoprotein E) Polyclonal Antibody, Unconjugated (bs-4892R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Apolipoprotein E) Polyclonal Antibody, Unconjugated (bs-4892R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=9.8] Yanghuan Yu. et al. MiRNA-seq and mRNA-seq revealed the mechanism of fluoride-induced cauda epididymal injury. SCI TOTAL ENVIRON. 2024 Jun;930:172895 **WB ; Mouse** . 38697545

[IF=3.517] Chen YC et al. Indole Compound NC009-1 Augments APOE and TRKA in Alzheimer's Disease Cell and Mouse Models for Neuroprotection and Cognitive Improvement. J Alzheimers Dis. 2019;67(2):737-756. **WB ; Human** . 30689566

[IF=3.412] Chiu CY et al. Fish Oil Supplementation Alleviates the Altered Lipid Homeostasis in Blood, Liver, and Adipose Tissues in High-Fat Diet-Fed Rats. J Agric Food Chem. 2018 Apr 25;66(16):4118-4128. **WB ; Rat** . 29627983

[IF=2.942] Xue Gang. et al. Identification of key genes of papillary thyroid carcinoma by integrated bioinformatics analysis. Bioscience Rep. 2020 Aug;40(8):BSR20201555 **WB ; Human** . 32766727

[IF=1.96] Liu, Zan, et al. "Secretomes are a potential source of molecular targets for cancer therapies and indicate that APOE is a candidate biomarker for lung adenocarcinoma metastasis." Molecular Biology Reports (2014): 1-17. **WB ; "Human"** . 25098600