**bs-5038R** **[ Primary Antibody ]**

# Apolipoprotein E4 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 348 **SWISS:** P02649

**Target:** Apolipoprotein E4

**Immunogen:** KLH conjugated synthetic peptide derived from human APOE4: 101-200/317.

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**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.

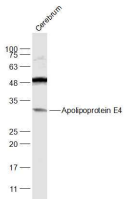
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)

**Reactivity:** Human, Mouse, Rat

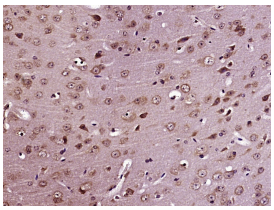
**Predicted MW.:** 34 kDa

**Subcellular Location:** Secreted

## VALIDATION IMAGES




Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-Apolipoprotein E4 (bs-5038R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 32 kD



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 E4) Polyclonal Antibody, Unconjugated (bs-5038R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

## SELECTED CITATIONS


- **[IF=5.108]** Yuan C et al. OAB-14, a bexarotene derivative, improves Alzheimer's disease-related pathologies and cognitive impairments by increasing β-amyloid clearance in APP/PS1 mice.(2019) Biochim Biophys Acta Mol Basis Dis.Jan;1865(1):161-180. WB ;Mouse. 30389579
- **[IF=2.726]** Chao Du. et al. Effects of safflower yellow on cholesterol levels in serum and brain tissue of APP/PS1 mice. Metab Brain Dis. 2021 Apr;36(4):557-569 WB ;Mouse. 33550459