bs-5039R **[Primary Antibody]**

APOE | APOE3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 348 **SWISS:** P02649

Target: APOE | APOE3

Immunogen: KLH conjugated synthetic peptide derived from human APOE3: 101-180/191.

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)

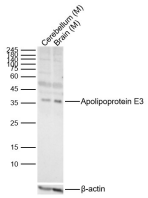
Reactivity: Human, Mouse, Rat (predicted: Pig, Cow)

Predicted MW.: 34 kDa

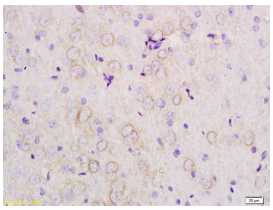
Observed MW.: 35 kDa

Subcellular Location: Secreted

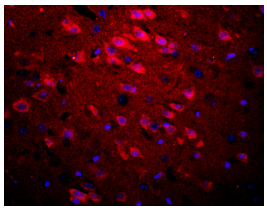
VALIDATION IMAGES



Sample: Lane 1: Mouse Cerebellum Lysates Lane 2: Mouse Brain Lysates Primary: Anti-Apolipoprotein E3 (bs-5039R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34kDa Observed band size: 35kDa



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-APOE3 Polyclonal Antibody, Unconjugated(bs-5039R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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SELECTED CITATIONS

- **[IF=12.6]** Lei Tian. et al. Disruption of cerebral cholesterol homeostasis by PS-NPs: astrocytic endoplasmic reticulum stress. J NANOBIOTECHNOL. 2025 Dec 24;23(1):790 WB ;Human. 41444604
- **[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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=3]** Vinoth Kumar Ganesan. et al. Unusual expression of peripheral blood Alzheimer’ s markers, inflammatory cytokines, and cholinergic biomarkers in chronic kidney disease patients with cognitive dysfunction: Therapeutic impact of recombinant human erythropoietin (rHuEPO). CURR RES TRANSL MED. 2026 Feb;:103568 WB ;Human. 41763076

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