

For Research Use Only

# APOE Monoclonal antibody, PBS Only



Catalog Number: 66830-1-PBS

## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>66830-1-PBS                       | <b>GenBank Accession Number:</b><br>BC003557 | <b>Purification Method:</b><br>Protein G purification |
| <b>Size:</b><br>100ug , Concentration: 1 mg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>348                 | <b>CloneNo.:</b><br>1B2C9                             |
| <b>Source:</b><br>Mouse                                     | <b>UNIPROT ID:</b><br>P02649                 |   |
| <b>Isotype:</b><br>IgG1                                     | <b>Full Name:</b><br>apolipoprotein E        |   |
| <b>Immunogen Catalog Number:</b><br>AG28186                 | <b>Calculated MW:</b><br>36 kDa              |   |
|   | <b>Observed MW:</b><br>34-36 kDa             |   |

## Applications

**Tested Applications:**  
WB, IF, FC, IHC, ELISA

**Species Specificity:**  
human, mouse

## Background Information

The apolipoprotein E (APOE) is a 299-amino acid polypeptide that mediates the binding, internalization, and catabolism of lipoprotein particles, and also serve as a ligand for the LDL (APO B/E) receptor and for the specific APOE receptor (chylomicron remnant) of hepatic tissues. The very strong association of the APOE  $\epsilon 4$  allele with AD risk and its role in the accumulation of amyloid  $\beta$  in brains of people and animal models solidify the biological relevance of APOE isoforms but do not provide mechanistic insight.

## Storage

**Storage:**  
Store at  $-20^{\circ}\text{C}$ . Stable for one year after shipment.

**Storage Buffer:**  
PBS only

Aliquoting is unnecessary for  $-20^{\circ}\text{C}$  storage

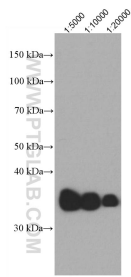
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

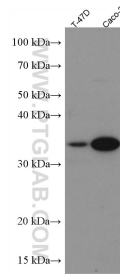
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

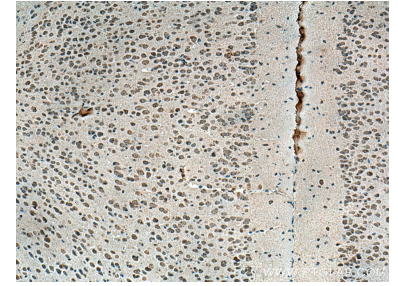
## Selected Validation Data



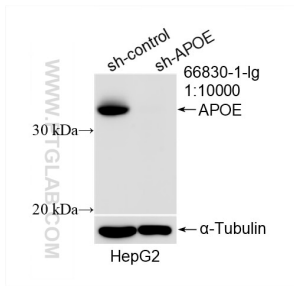
human plasma was subjected to SDS PAGE followed by western blot with 66830-1-Ig (APOE antibody) at a range of dilutions from 1:5000 to 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66830-1-PBS in a different storage buffer formulation.



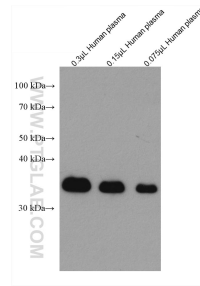
Various lysates were subjected to SDS PAGE followed by western blot with 66830-1-Ig (APOE antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66830-1-PBS in a different storage buffer formulation.



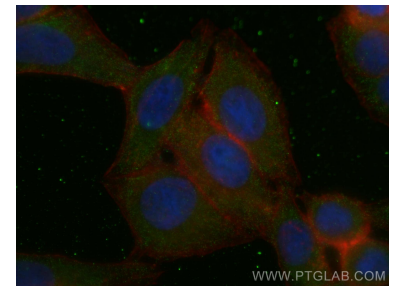
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66830-1-Ig (APOE antibody) at dilution of 1:0 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66830-1-PBS in a different storage buffer formulation.



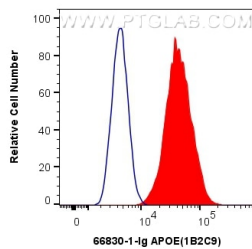
WB result of APOE antibody (66830-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-APOE transfected HepG2 cells. This data was developed using the same antibody clone with 66830-1-PBS in a different storage buffer formulation.



human plasma were subjected to SDS PAGE followed by western blot with 66830-1-Ig (APOE antibody) at dilution of 1:3400 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66830-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using APOE antibody (66830-1-Ig, Clone: 1B2C9) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 66830-1-PBS in a different storage buffer formulation.



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug Anti-Human APOE (66830-1-Ig, Clone:1B2C9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 66830-1-PBS in a

