

For Research Use Only

# APOE Monoclonal antibody

Catalog Number: 66830-1-Ig

Featured Product

7 Publications



## Basic Information

<b>Catalog Number:</b> 66830-1-Ig	<b>GenBank Accession Number:</b> BC003557	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 2000 µg/ml	<b>GeneID (NCBI):</b> 348	<b>CloneNo.:</b> 1B2C9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P02649	<b>Recommended Dilutions:</b> WB 1:3000-1:20000 IHC 1:50-1:500 IF 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Full Name:</b> apolipoprotein E	
<b>Immunogen Catalog Number:</b> AG28186	<b>Calculated MW:</b> 36 kDa	
	<b>Observed MW:</b> 34-36 kDa	

## Applications

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

**Cited Applications:**  
IF, IHC, WB

**Species Specificity:**  
human, mouse

**Cited Species:**  
human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** human plasma tissue, human blood, human plasma, T-47D cells, HepG2 cells, Caco-2 cells

**IHC:** mouse brain tissue,

**IF:** HepG2 cells,

## 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 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hideaki Morishita	31526472	Elife	WB,IF
Anlley Fernandez	36436561	J Biol Chem	IF
Anika Alberts	33363539	Front Immunol	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

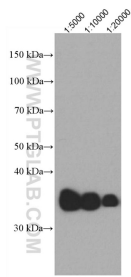
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

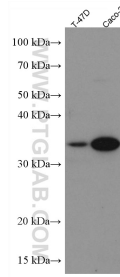
W: [ptgcn.com](http://ptgcn.com)

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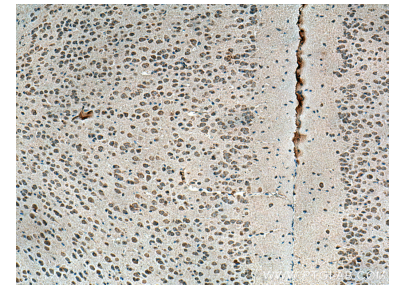
## Selected Validation Data



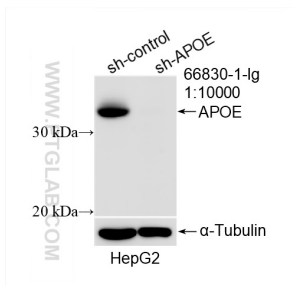
human plasma was subjected to SDS PAGE followed by western blot with 66830-1-Ig (APOE antibody) at a range of dilutions from 1:5000 to 1:20000 incubated at room temperature for 1.5 hours.



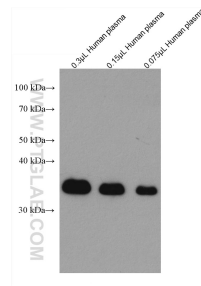
Various lysates were subjected to SDS PAGE followed by western blot with 66830-1-Ig (APOE antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



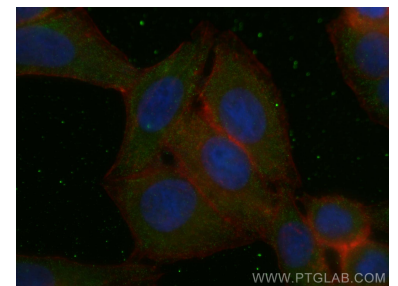
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66830-1-Ig (APOE antibody) at dilution of 1:0 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



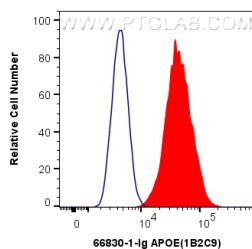
WB result of APOE antibody (66830-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-APOE transfected HepG2 cells.



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.



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).



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).