

# APOE Monoclonal antibody

Catalog Number: 66830-1-Ig

Featured Product

7 Publications

## Basic Information

## Catalog Number:

66830-1-Ig

## Size:

2000 µg/ml

## Source:

Mouse

## Isotype:

IgG1

## Immunogen Catalog Number:

AG28186

## GenBank Accession Number:

BC003557

## GeneID (NCBI):

348

## UNIPROT ID:

P02649

## Full Name:

apolipoprotein E

## Calculated MW:

36 kDa

## Observed MW:

34-36 kDa

## Purification Method:

Protein G purification

## CloneNo.:

1B2C9

## Recommended Dilutions:

WB 1:3000-1:20000

IHC 1:50-1:500

IF 1:400-1:1600

## Applications

## Tested Applications:

FC, IF/ICC, IHC, WB, ELISA

## Cited Applications:

WB, IF, IHC

## 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 β 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

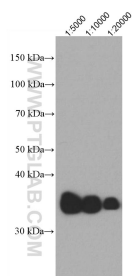
For technical support and original validation data for this product please contact:

T: 4006900926

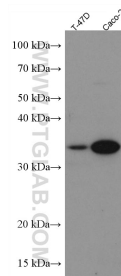
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

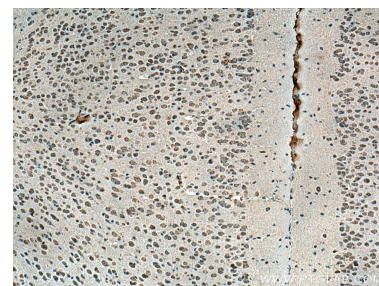
## Selected Validation Data



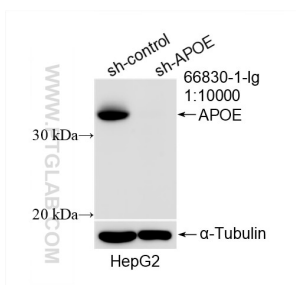
human plasma was subjected to SDS PAGE followed by western blot with 66830-1-Ig (APOE antibody) at a range of dilutions from 1:5000 to 1:20000 incubated at room temperature for 1.5 hours.



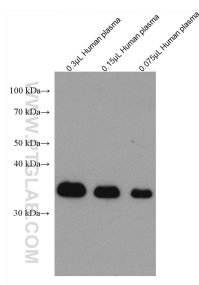
Various lysates were subjected to SDS PAGE followed by western blot with 66830-1-Ig (APOE antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



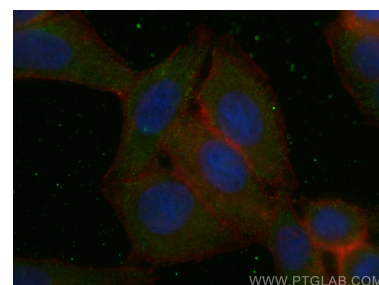
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66830-1-Ig (APOE antibody) at dilution of 1:0 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



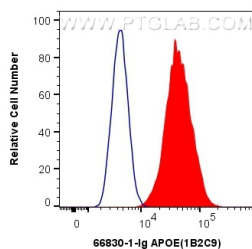
WB result of APOE antibody (66830-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-APOE transfected HepG2 cells.



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).