

For Research Use Only

# APOE Monoclonal antibody

Catalog Number: 66830-1-Ig

Featured Product

12 Publications



## Basic Information

Catalog Number:

66830-1-Ig

Size:

150ul, Concentration: 2000 ug/ml by Nanodrop and 680 ug/ml by Bradford method using BSA as the standard;

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-P 1:200-1:800

IF/ICC 1:400-1:1600

## Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

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-P : mouse brain tissue,

IF/ICC : 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 ε4 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, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

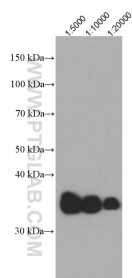
For technical support and original validation data for this product please contact:

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

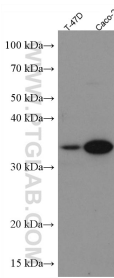
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

Selected Validation Data



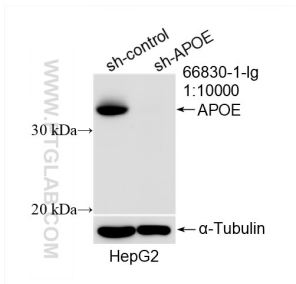
human plasma was subjected to SDS PAGE followed by western blot with 66830-1-Ig (APOE antibody) at a range of dilutions from 1:5000 to 1:20000 incubated at room temperature for 1.5 hours.



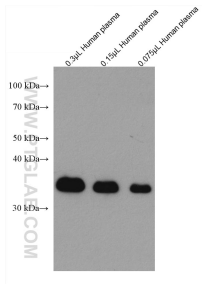
Various lysates were subjected to SDS PAGE followed by western blot with 66830-1-Ig (APOE antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



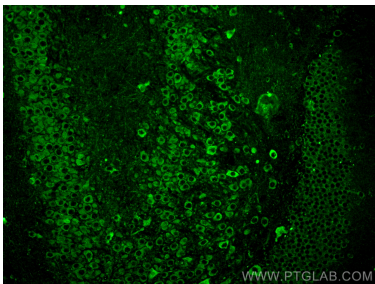
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66830-1-Ig (APOE antibody) at dilution of 1:0 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



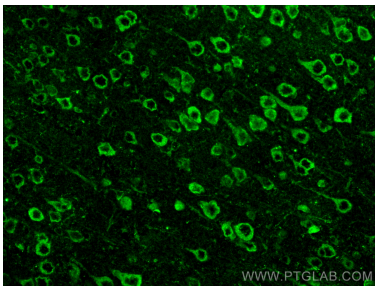
WB result of APOE antibody (66830-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-APOE transfected HepG2 cells.



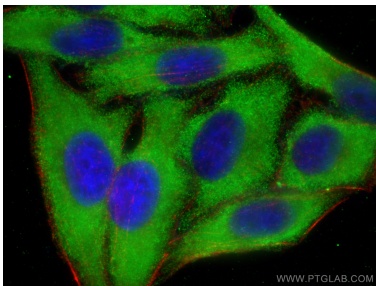
human plasma were subjected to SDS PAGE followed by western blot with 66830-1-Ig (APOE antibody) at dilution of 1:3400 incubated at room temperature for 1.5 hours.



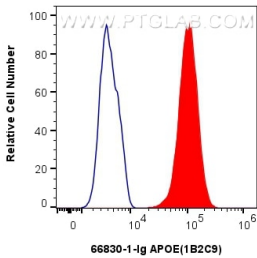
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using APOE antibody (66830-1-Ig, Clone: 1B2C9 ) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using APOE antibody (66830-1-Ig, Clone: 1B2C9 ) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using APOE antibody (66830-1-Ig, Clone: 1B2C9 ) at dilution of 1:800 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CL594-Phalloidin (red).



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.8 ug APOE Monoclonal antibody (66830-1-Ig, Clone:1B2C9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.8 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Intracellular Staining Permeabilization Wash Buffer.