

# APOA4 Monoclonal antibody

Catalog Number: 66252-1-Ig

## Basic Information

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|---|--|---|
| <b>Catalog Number:</b><br>66252-1-Ig  | <b>GenBank Accession Number:</b><br>BC074764 | <b>Purification Method:</b><br>Protein G purification                                     |
| <b>Size:</b><br>150ul , Concentration: 1200 ug/ml by Nanodrop and 787 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>337                 | <b>CloneNo.:</b><br>3A9A8   |
| <b>Source:</b><br>Mouse   | <b>UNIPROT ID:</b><br>P06727                 | <b>Recommended Dilutions:</b><br>WB 1:1000-1:8000<br>IHC 1:50-1:500<br>IF/ICC 1:200-1:800 |
| <b>Isotype:</b><br>IgG1   | <b>Full Name:</b><br>apolipoprotein A-IV     |   |
| <b>Immunogen Catalog Number:</b><br>AG12454   | <b>Calculated MW:</b><br>396 aa, 45 kDa      |   |
|   | <b>Observed MW:</b><br>45-46 kDa             |   |

## Applications

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|--|--|
| <b>Tested Applications:</b><br>WB, IHC, IF/ICC, ELISA  | <b>Positive Controls:</b>                  |
| <b>Species Specificity:</b><br>human, mouse  | <b>WB :</b> human plasma tissue, L02 cells |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> | <b>IHC :</b> mouse small intestine tissue, |
|  | <b>IF/ICC :</b> SH-SY5Y cells,             |

## Background Information

APOA4 is a major protein component of chylomicrons in postprandial lymph and plasma. It is synthesized in the small intestine and the liver, attached to chylomicrons by enterocytes, and secreted into intestinal lymph during fat absorption. APOA4 is intimately involved in metabolism and has protective roles in cardiovascular diseases like atherosclerosis. APOA4 can promote INS secretion and maintain glucose homeostasis. It also has potent antioxidant and anti-inflammatory properties.

## Storage

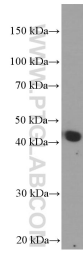
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

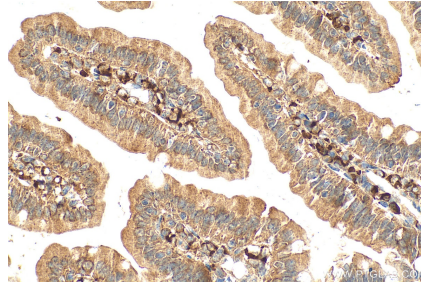
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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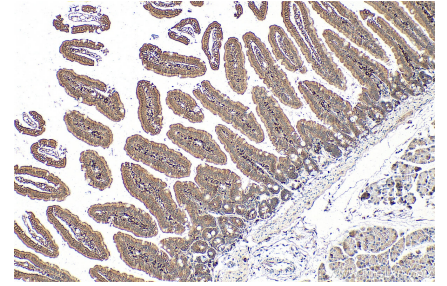
## Selected Validation Data



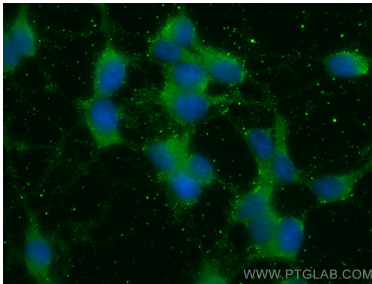
human plasma were subjected to SDS PAGE followed by western blot with 66252-1-Ig (APOA4 Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 66252-1-Ig (APOA4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 66252-1-Ig (APOA4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using APOA4 antibody (66252-1-Ig, Clone: 3A9A8 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).