

For Research Use Only

Apolipoprotein AI Recombinant antibody

Catalog Number: 83504-1-RR



Basic Information

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| Catalog Number: 83504-1-RR | GenBank Accession Number: BC005380 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 335 | CloneNo.: 240269F1 |
| Source: Rabbit | UNIPROT ID: P02647 | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:300-1:1200 |
| Isotype: IgG | Full Name: apolipoprotein A-I | |
| | Calculated MW: 31 kDa | |
| | Observed MW: 26-30 kDa | |

Applications

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|---|---|
| Tested Applications: WB, IHC, FC (Intra), ELISA | Positive Controls: |
| Species Specificity: human | WB : HepG2 cells, IHC : human stomach cancer tissue, |

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

Background Information

ApoA1 is a major protein component of high density lipoproteins (HDL) which is associated with reversed cholesterol transport, lipid/cholesterol binding, lecithin/cholesterol acyltransferase (LCAT) activation and specific receptors binding. It is synthesized in the liver and small intestine. Defects of ApoA1 cause low HDL level and systemic non-neuropathic amyloidosis. Serum concentration of ApoA1 is inversely related to the risk of developing atherosclerosis.

Storage

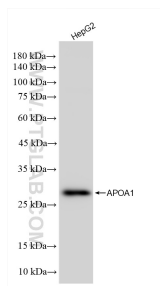
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

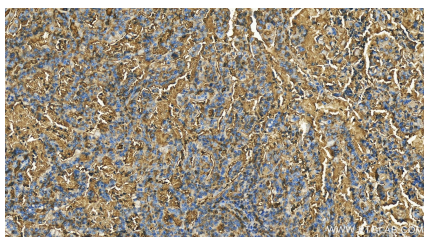
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

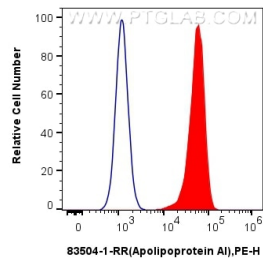
Selected Validation Data



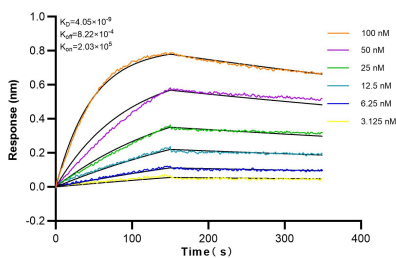
HepG2 cells were subjected to SDS PAGE followed by western blot with 83504-1-RR (Apolipoprotein AI antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 83504-1-RR (Apolipoprotein AI antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer(pH9).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug Apolipoprotein AI Recombinant antibody (83504-1-RR, Clone:240269F1) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83504-1-RR against Human Apolipoprotein AI were performed. The affinity constant is 4.05 nM.