

For Research Use Only

Apolipoprotein AI Recombinant antibody

Catalog Number: 83504-1-RR



Basic Information

Catalog Number: 83504-1-RR	GenBank Accession Number: BC005380	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/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

Tested Applications:
WB, IHC, FC (Intra), ELISA

Species Specificity:
human

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 : HepG2 cells,

IHC : human stomach cancer tissue,

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**

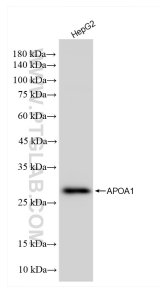
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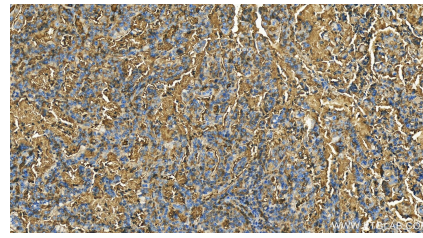
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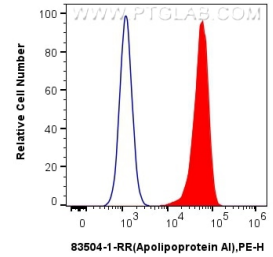
Selected Validation Data



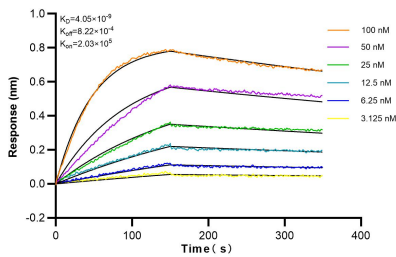
HepG2 cells were subjected to SDS PAGE followed by western blot with 83504-1-RR (Apolipoprotein AI antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



1×10^6 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.