

For Research Use Only

Apolipoprotein A II Polyclonal antibody



Catalog Number: 16845-1-AP

3 Publications

Basic Information

Catalog Number: 16845-1-AP	GenBank Accession Number: BC005282	Purification Method: Antigen affinity purification
Size: 600 µg/ml	GeneID (NCBI): 336	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: P02652	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: apolipoprotein A-II	IHC 1:50-1:500
Immunogen Catalog Number: AG9863	Calculated MW: 100 aa, 11 kDa	IF 1:50-1:500
	Observed MW: 7-9 kDa (monomer), 15 kDa (dimer)	

Applications

Tested Applications: IF/ICC, IHC, IP, WB, ELISA	Positive Controls: WB : human plasma tissue, IP : human plasma tissue, IHC : human liver tissue, human hepatocirrhosis tissue IF : HepG2 cells,
Cited Applications: WB	
Species Specificity: human	
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	

Background Information

Apolipoprotein A-II (APOA2) is a major component of high density lipoprotein (HDL) and it plays an important role in directing the fate of lipid metabolism among HDL. It is primarily synthesized by liver. The predicted MW of ApoA2 is 11 kDa, while the mature form is smaller (7-10 kDa) since the signal peptide was cleaved. In humans, most of circulating apoA2 exist as dimer. Five types of APOA2 dimer exist: homodimer apoA2-ATQ/ATQ, heterodimer apoA2-ATQ/AT, homodimer apoA2-AT/AT, apoA2-AT/A, and apoA2-A/A. ApoA2 isoforms are considered to be some of the most promising serum/plasma biomarkers for aiding the early detection of pancreatic cancer. (PMID: 29081441, 29481802)

Notable Publications

Author	Pubmed ID	Journal	Application
Zhonghao Li	36498935	Int J Mol Sci	WB
Yanying Wang	34728628	Nat Commun	WB
Jun-Jun Qiu	31911152	Exp Cell Res	WB

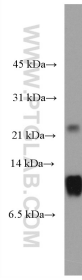
Storage

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

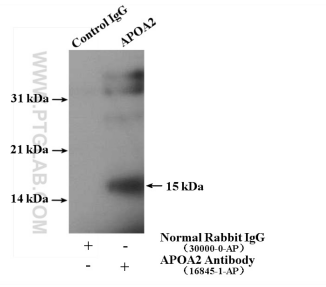
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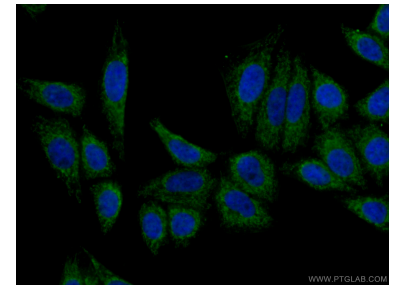
Selected Validation Data



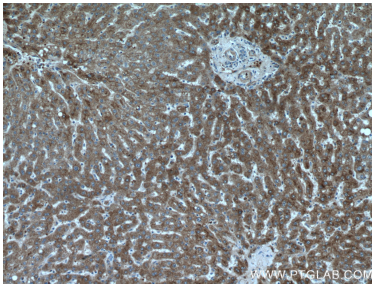
human plasma were subjected to SDS PAGE followed by western blot with 16845-1-AP (Apolipoprotein A II antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



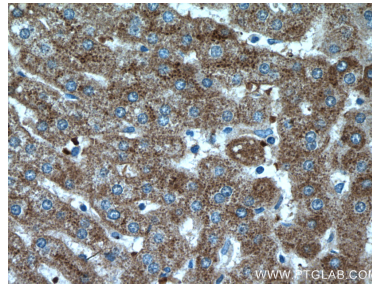
IP result of anti-Apolipoprotein A II (IP:16845-1-AP, 4ug; Detection:16845-1-AP 1:500) with human plasma lysate 4000 ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 16845-1-AP (Apolipoprotein A II antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16845-1-AP (Apolipoprotein A II antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16845-1-AP (Apolipoprotein A II antibody) at dilution of 1:200 (under 40x lens).