

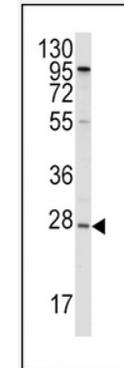
ApoA1 Antibody (NT)

ALTERNATE NAMES:	APOA1; Apolipoprotein A-I; Apolipoprotein A1; Truncated apolipoprotein A-I; Apolipoprotein A-I(1-242)
CATALOG #:	6712-100
AMOUNT:	100 µl
HOST/ISOTYPE:	Rabbit IgG
IMMUNOGEN:	This APOA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 10-37 amino acids from the N-terminal region of human APOA1.
PURIFICATION:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
MOLECULAR WEIGHT:	~30.78 kDa
FORM:	Liquid
FORMULATION:	Supplied in PBS with 0.09% (W/V) sodium azide.
SPECIES REACTIVITY:	Human.
STORAGE CONDITIONS:	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

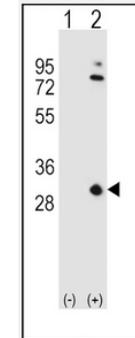
DESCRIPTION: APOA1 promotes cholesterol efflux from tissues to the liver for excretion. Apolipoprotein A-I is the major protein component of high density lipoprotein (HDL) in the plasma. Synthesized in the liver and small intestine, it consists of two identical chains of 77 amino acids; an 18-amino acid signal peptide is removed co-translationally and a 6-amino acid propeptide is cleaved post-translationally. Variation in the latter step, in addition to modifications leading to so-called isoforms, is responsible for some of the polymorphism observed. APOA1 is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. The APOA1, APOC3 and APOA4 genes are closely linked in both rat and human genomes. The A-I and A-IV genes are transcribed from the same strand, while the C-III gene is transcribed convergent in relation to A-I. Defects in the apolipoprotein A-1 gene are associated with HDL deficiency and Tangier disease.

APPLICATION: Western blot: ~1:1000, IHC: ~1:10-1:50.

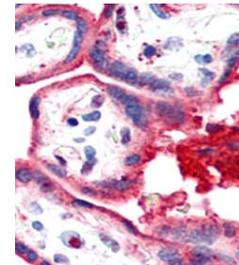
Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



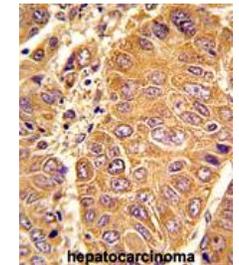
Western blot analysis of anti-APOA1 Antibody (N-term) (Cat # 6712-100) in HepG2 cell line lysates (35 µg/lane). APOA1 (arrow) was detected using the purified Pab.



Western blot analysis of APOA1 (arrow) using rabbit polyclonal APOA1 Antibody (N-term) (Cat # 6712-100). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the APOA1 gene.



Formalin-fixed and paraffin-embedded human Placenta tissue reacted with APOA1 antibody (N-term) (Cat # 6712-100), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with APOA1 antibody (N-term) (Cat # 6712-100), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

RELATED PRODUCTS:

- ApoA-1, human recombinant (Cat # 4693-20, -100, -1000)
- ApoA-1, rat recombinant (Cat # 4695-20, -100, -1000)
- ApoA4 Antibody (NT) (Cat # 6713-100)
- ApoA5 Antibody (NT) (Cat # 6714-100)

FOR RESEARCH USE ONLY! Not to be used on humans.