

## ABfinity™ Apo A1 Recombinant Rabbit Monoclonal Antibody

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Rev. 1.00

Catalog Number: 701239

Store at 2° to 8°C (short-term), or -20°C (long-term)

**Clonality:** Monoclonal  
**Concentration:** 0.5 mg/mL  
**Quantity:** 100 µg  
**Volume:** 200 µL

**Host/Class:** Rabbit IgG  
**Reactivity:** Human Apo A1  
**Predicted Reactivity:** Human

### Product Description

Apolipoprotein A1 (Apo A1) is primarily synthesized in the liver, but also in the small intestine. It is a major constituent of human high density lipoproteins (HDL), and plays an important role in metabolic and transport function of lipoproteins of the serum. It is regulated by the dietary intake of lipids, and acts as an activator for the enzyme lecithin cholesterol acyl transferase which converts cholesterol to cholesteryl esters. During lypolysis in the peripheral tissue, Apo A1 can also play a role as an acceptor for surface components of very low density lipoproteins and chylomicrons. The gene encoding Apo A1 is found on chromosome 11.

### Product Specifications

**Immunogen:** Peptide corresponding to amino acids 127–142 of human Apolipoprotein A1  
**Alternate Names:** Apo1A, ALP1, Sep2  
**Apparent MW:** ~28 kDa  
**Gene ID:** 335  
**Protein Accession No.:** P02647  
**Sequence Identity:** Human  
**Sequence Homology:** Mouse, Rat, Monkey  
**Clone/PAD:** 19H20L19  
**Lot:** See product label

### Product Applications

Application	Species	Test Material	Concentration
Western blotting	Rat, Human	Rat liver, HepG2 cells	1–2 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 <sup>-4</sup> to 3 µg/mL

### Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

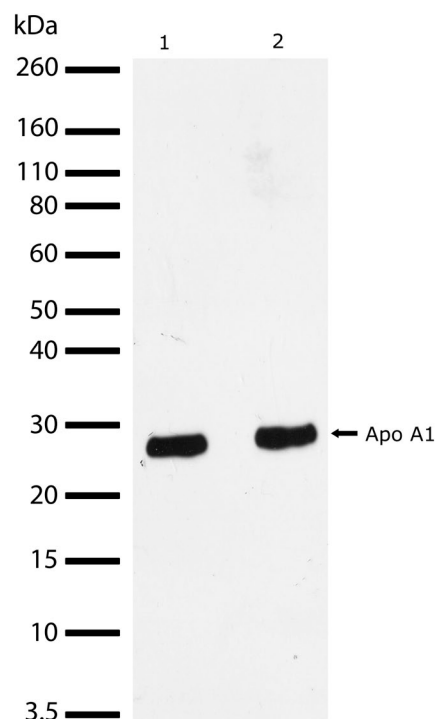
### Storage and Handling

Store the antibody at 2° to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

### Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

**Caution:** Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.



**Figure 1** Western blot analysis of ABfinity™ Apo A1 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701239).

Western blot analysis was performed on whole cell extracts from rat liver lysate (lane 1) and HepG2 lysates (lane 2). Endogenous levels of Apo A1 was detected at ~28 kDa using Apo A1 Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using chemiluminescence (ECL) method.

**For research use only. Not for human or animal therapeutic or diagnostic use.**

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## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Related Products

Product Name	Quantity	Catalog no.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

### Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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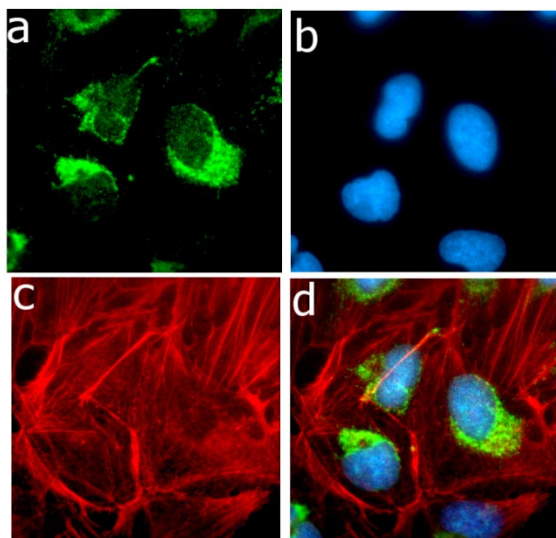
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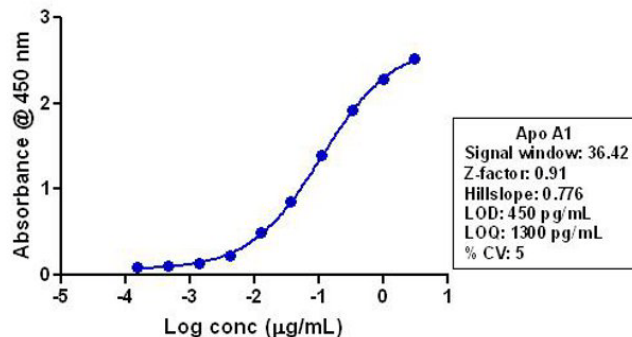
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**Figure 2** Immunocytochemistry analysis of ABfinity™ Apo A1 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701239).

Immunocytochemistry analysis of U2OS cells stained with ABfinity™ Apo A1 Recombinant Rabbit Monoclonal Antibody, using **a:** Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b:** DAPI stained U2OS nuclei (blue). **c:** Actin stained with Alexa Fluor® 594 phalloidin (red). **d:** Composite image of cells showing subcellular cytoplasmic localization of Apo A1.



**Figure 3** Indirect ELISA of ABfinity™ Apo A1 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701239).

Indirect ELISA was performed using various dilutions of ABfinity™ Apo A1 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701239) to detect Apo A1 peptide coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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